Part No. P0993135 03

Business Communications Manager 3.0

Programming Record

The programming record is divided into four groups of forms, to provide you with quick access to the part of the programming you are working on.

- Getting Started: System Setup
- Data Settings: Connecting to the Network
- Telephony Settings: Setting Up Your Telephones
- Post-Installation Application Setups

Click the programming record form of your choice.

NORTEL NETWORKS™

Return to Programming Record forms

System setup

NORTEL NETWORKS™

Contents: System setup

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Using your Programming Record

These forms provide you with a way of keeping track of the information you enter into your Business Communications Manager.

Print the forms out as you need them.

Note: These forms are copyrighted to Nortel Networks and are not to be used in any other context.

If you are using Acrobat 4© or greater, with Acrobat Distiller©, you can use the Text annotation tool and the Highlight text tools to enter the information directly into the form. Remember to copy the pages where you will need more than one form, such as the telephone information pages.

If you have an HTML editor, you can open the HTML files located in the "Record" folder on the CD, to create a custom programming record for your site.

Once you fill out the forms relevant to your system, they will provide you with a quick overview of your system data, as well as a way to sanity check if you ever need to restore your data.

New for Business Communications Manager 3.0

The following section lists the changes and new forms that have been added for this release:

Form	New fields	Comments
Setup screens		
System identification and initialization information	Density setting (PDD and DDD) IVR DN	
Installed equipment	DSM16+, DSM32+, and DDI Mux	
System Users and User Group privileges (new function)	New forms	Provide your users with various levels of access to the Unified Manager
Identifying lines and Modules) (old title: Identifying media bay modules)	double density tables DDI Mux	section was reworked
Installed Telephones and other Hardwired Devices	double density wiring	
System Configuration	new table	fields to configure your system for IP trunks
H.323 trunks	Registration TTL Gateway Protocol: CSE	(new in Feature Pack 1, updated for 3.0)
Remote Gateway	Gateway type: BCM 3.0, IMP, CSE 1000, CS 3000 Gateway Protocol: CSE	New interoperability

Form	New fields	Comments
Telephony programming		
General Telephony Settings		
Direct dial sets	new table (direct dial sets)	(existing feature; moved from another location)
CAP settings	CAP #7-12	(additional module positions added)
Feature settings	new table	existing features new feature: Force auto/spd dial over ic/conf
Destination codes	new table	added alternate route scheduling
Capabilities and User Preferences, Form 2	Receive short tones ATA dvc SM supervisor	 Frequency adjustments for ATA SM supervisor is a new feature
Button programming	i2004 and i2002 button programming	new tables
Hunt groups: Silent monitor	new table	new feature

General information

This section provides you with a quick-reference to information that might be required by service personnel or by customer support.

Customer/Company	Supplier
Address	Address
Telephone	Telephone
Billing number	Fax/email
System coordinator	Customer service representative
Telephone	Installer
Email	Installation date

System notes:

System identification and initialization information

Most of this information is specified in the Quick Start Wizard when you first start your system. Some of the settings can be adjusted within the Unified Manager.

System information	Where to find or enter the information:
System identifier (hardcoded on each system)	*Unified Manager: System/Licensing*
System Name	*Unified Manager: System/Identification*
Market Profile/Companding law	(alaw or mulaw)
Time zone	
DS30 channel split	2/6 3/5 (not reversible) *Unified Manager: Diagnostics/MSC*
Density setting	PDD (Bus 07 and 08 set to single density) (supports Companion) DDD (all buses set to double density) (does not support Companion. Not reversible) *Unified Manager: Diagnostics/MSC*
System language	*Quick Start Wizard*
CallPilot Region and DN	*Quick Start Wizard*
IVR DN	*IVR application*
DN lengths/ Received # length	*Quick Start Wizard*
LAN 1 IP Address	*Quick Start Wizard*
LAN 1 Subnet Mask	*Quick Start Wizard*
Next Hop on Primary Link (Net Link Manager)	*Quick Start Wizard*

System hardware and connected equipment

Use this table to record the system equipment and devices you connected to the system. This record provides maintenance and service personnel with an instant picture of your system hardware.

Installed equipment

Business Communications Manager

Quantity	Equipment
	Base unit serial #
	Expansion unit serial #

Media Bay Modules

Quantity	DS30		
		Trunk modules	
		DTM	Lines
		CTM	Lines
		CTM8	Lines
		4X16	Lines/DNs
		DECT	DNs
		ISDN-BRI	Lines

Trunk lines

Quantity	Type	Type of line
		Analog
		ISDN BRI
		ISDN PRI
		VoIP (requires keycode)
		NetMeeting trunks

Station modules

Quantity	DS30	
		ASM
		ASM8
		DSM16/16+
		DSM 32/32+

Telephones

Quantity	Equipment
Digital telephones	
	T7100 Business Series Terminal
	T7208 Business Series Terminal
	T7316 Business Series Terminal
	T7000 Business Series Terminal
	M7324(N)
	M7324(N) with CAPs(N)
	M7100(N) telephone
	M7208(N) telephone
	M7310(N) telephone
	T7000
	M7310 with Busy Lamp Field (BLF)
	NOTE: (Some models are not available for all profiles)
Other types of telephones	
	Conference phone
	Single-line telephone
	Emergency telephone
IP telephones (require keycodes)	
	i2002 IP telephone
	i2004 IP telephone
	i2050 Nortel Networks Software Phone
	NetVision telephone
	NetVision Data telephone
Wireless/Cordless telephones	
	Companion C3020 Portable Telephone
	Companion C3020 charger
	Companion C3050 Portable Telephone
	Companion C3050 charger

				Companion C3060 Portable Telephone
Specialty modules				Companion C3060 charger
Type **T S**	**Ports**	Fiber Expansion Module (FEM)		C1110 Base Stations (PCI)
		DDI Mux (data and telephony combined)		DECT cordless handsets
				DECT base stations
				T7406 cordless handsets
				T7406 base stations

Data terminals

Quantity	Equipment
	Analog Terminal Adapter (ATA) or (ATA2)

Auxiliary equipment

Quantity	Equipment
	External paging equipment
	External music source
	Station auxiliary power supply
	Auxiliary ringer
	Shoulder rest
	Headset
	Companion-specific equipment
	Plug Top Power Supply
	Radio frequency (RF) filter kit

System Keycodes

If you have any optional applications such as CallPilot or PRI networks, you need keycodes to activate the features. Make a note of these codes, as they may not get regenerated in some upgrade circumstances.

Keycode	Application	Date entered

System Users

Copy, as needed.

You use passwords to access the Unified Manager and various components of the system. The passwords provided below are default system passwords. Ensure that you change these passwords as soon as your system has been installed and tested.

You can create system passwords for various levels of access in the Unified Manager under Management, User Management. Ensure that you maintain at least one supervisory password with full privileges.

You will also enter passwords within the CallPilot and IVR applications that are specific to those programs.

WARNING: Store your passwords in a secure place. Change them frequently, especially if the assigned employee leaves the company.

User Name	Password (max. 12 characters/ case-sensitive)	Member of <group name> (refer to User Group privileges on page 8)
Default user: ee_admin	eedge (default)	
Default user: ModemBackup		
Default user: supervisor	visor (default)	

User Group privileges

You use passwords to access the Unified Manager. These are system passwords which have default settings. Ensure that you change these passwords as soon as your system has been installed and tested. These passwords are created or changed under Management, User Management.

Besides changing the default passwords, you can provide user passwords that provide specific access to specific parts of the navigation tree. As well, you will have passwords for your CallPilot application.

User Group name	Allowed privileges	Denied Privileges
Default: AdminUserGroup	All	None
Default: CDRUserGroup	CDR access only	All other access is read-only.
Default: DataUserGroup	Data and IP telephony	All other access is read-only.
Default: DialUpUserGroup	No access to Navigation tree	
Default: ReadOnlyUserGroup	No access	Navigation tree is visible, but read-only.
Default: VoiceUserGroup	Resources/Media Bay Modules and telephony requirements under Services and Diagnostics.	All other menus are read-only.

Defining data and telephony settings

You need to identify your system to the intranet or internet your equipment is connected to. This allows you to use the network connection to access the Unified Manager to set up your system. It also provides you with other network-related features, such as the capacity for voice over IP (VoIP) telephony services.

The programming records are divided into four groups of related forms.

- The forms that follow this section all provide general system internet and telephony records.
- The next set of forms provide records for any internet data connections and the MSC settings, which define the voice network parameters.
- The telephony forms provide records for individual telephones, and for general telephony information such as schedules and system operations.
- The final set of forms provide records for the optional applications that are included with the base Business Communications Manager software, including Call Detail Recording, LAN CTE, and Console Service settings.

Configuration tools

You can use the Quick Start Wizard to set up the initial data and telephony features for your system. As well there other wizards that can be used to add telephony and DECT records, and renumber the DN record. Wizards are described in detail in the *Business Communications Manager Programming Operations Guide*.

The Unified Manager user interface provides access to all system configuration menus.

Note: The following navigation menu listings are general examples, only. What appears under these headings depends on what hardware setup you have configured. All the information on the forms in your Programming Record can be found through the Unified Manager navigation menus under Resources and Services.

Resources

- **LAN**
  - LAN1
  - LAN2
- **WAN**
  - WAN1
  - WAN2
- **Media Services Card**
  - MSC Configuration
  - DTMF Configuration
- **Media Bay Modules**
  - Bus 01
    - Ports on Bus
      - Port 0101 to 0132
  - Bus 02
    - Ports on Bus
      - Port 0201 to 0232
        - Channels
          - B1
            - Addons
  - Bus 03
    - Modules on Bus
      - Module 1
        - Provision Loops
        - (Loop 301-304)
      - Module 2
    - Ports on Bus
      - Port 0301 to 0332
        - Addons
          - Addon01
          - Addon02

- **Dial UP**
  - V.90
    - ModemBackup
  - ISDN
  - PPOE
- **DECT**
- **Media Bay Modules**
  - Bus 04
    - Modules on Bus
      - Module 1
        - Call-by-call service selection
          - Foreign Exchange (FX)
          - Inwats (800)
        - T1 Parameters
        - Provision Lines
          - 211-233
      - Module 2
      - Module 3
    - Ports on Bus
      - Port 0401 to 0432
        - Addons
  - Bus 05
    - Ports on Bus
      - Port 0501 to 0532
  - Bus 06
    - Ports on Bus
      - Port 0601 to 0632
    - Bus 07
    - Ports on Bus
      - Port 0701 to 0732
    - Bus 08
    - Data module
      - Line pool access
      - Line assignment
      - Interfaces
        - Interface 02-25
          - Line assignment
    - Ports on Bus
      - Port 0801 to 0828

Services, Telephony Services

System DNs
- Active Set DNs
  - DN XXX - XXX
    - General
    - Line Access
      - Line Assignment
      - Line pool access
      - Answer DNs
    - Capabilities
      - Call Forward
      - Hotline
      - ATA settings
      - Intrusion
    - User preferences
      - Button programming
      - User speed dials
    - Restrictions
      - Set restrictions
        - Schedule
      - Line/set restrictions
        - Line XXX
    - Telco Features
- Active Companion DNs
  - DN XXX - XXX
- Active Application DNs
  - DN XXX - XXX
- Inactive DNs
  - Set DNs
    - DN XXX - XXX
  - Companion DNs
    - DN XXX - XXX
  - All inactive DNs
    - DN XXX - XXX
- All ISDN/DECT DNs
  - DN XXX - XXX
- All system DNs
  - DN XXX - XXX

Lines
- VoIP lines
  - Enabled VoIP lines
  - All VoIP lines
    - Lines 001-060
- Physical lines
  - Enabled Physical lines
  - All Physical lines
    - Lines 061-233
- Target lines
  - Lines 241-492
- All lines
  - Lines 001-492
    - General
    - Trunk/Line data
    - Restrictions
      - Line restrictions
      - Remote restrictions
    - Telco features

Loops
- Loop XXX
  - SPID

Restriction Filters
- Filter 00-99
  - Restrictions
    - Restriction 01
      - Overrides

Call Routing
- Routes
  - Route XX

Destination Codes
- XXX
  - Schedules

Schedule Services
- Ringing Service
  - Ring Groups
    - Ring Group 001-100
      - Sets
        - DN XXX
      - Schedules
        - Night
          - Line settings
            - Note: Not PRI or VoIP
            - Line 061-492
        - Evening
        - Lunch
        - Sched 4
        - Sched 5
        - Sched 6
- Restriction Service
  - Sched 1-6
- Restriction Service
  - Sched 1-6
- Common Settings
  - Service control password
  - Schedule names
  - Sched 0-6
  - Schedule times
  - Monday
    - Schedule
  - Tuesday
  - Wednesday
  - Thursday
  - Friday
  - Saturday
  - Sunday

Services, Telephony Services (continued)

- **System speed dial**
  - Speed dial 01-70
- **General settings**
  - Feature settings
    - SWCA controls
    - Call log space
  - Nortel IP terminals
    - Feature labels
      - Labels 1-24
  - Timers
  - Direct dial
    - Set 1-5
  - CAP assignments
    - CAP 1-12
  - Dialing plan
    - Private Network
    - Public Network
      - Public DN lengths
        - Prefix Default
        - Prefix XXX
  - Access Codes
    - Line pool codes
      - Pool A-O
    - Carrier codes
      - Prefix XXX
  - Remote access package
    - Package 00-15
      - Line pool access
  - COS Passwords
    - COS 00-99
  - DN lengths
    - Received # length
  - CbC limits
    - Pool
  - Release reasons
- **General settings, continued**
  - Network Services
    - ETSI
    - MCDN
  - Silent Monitor
- **Hunt groups**
  - Hunt group 01-30
    - Members
    - Line assignment
- **Companion**
  - Registration
    - Portable DNs
      - DN 565-596
  - Radio data
    - Re-evaluation
    - Radios
      - Radio XXXX
    - Cells
      - Cell 01-32
        - Cell radio
        - Cell neighbors
        - Cell radio neighbors
- **Hospitality**
  - Set/room settings
    - Active sets
    - All sets (221-440)
  - Call permissions
  - Alarm Data
    - Expired alarms
- **Telco Features**
  - Voice message center numbers
    - Center 1-5
  - ONN blocking
- **IP telephony**
  - System Configuration
  - Nortel IP Terminals
  - H.323 Terminals
  - H.323 Trunks
    - Remote Gateway
  - PortRanges

Services: MSC and data menus

- **Call Detail Recording**
  - Report Params
  - Report Options
  - Market Params
  - Prefix Bins
  - Access Bin Settings
  - Data File Transfer
- **LAN CTE Configuration**
  - Domain/User Account
  - IP Address
  - Machine Name
- **Console Service**
  - Server Configuration
  - General Information
  - Diagnostic Logging
- **Voice Mail**
- **Multi Media Call Center**
- **IVR**
  - IVR prompts
- **DHCP**
  - Local Scope
    - LAN 1/2
  - Remote Scope
- **DNS**
- **IP Routing**
  - LAN 1/2
  - WAN 1/2
  - V90-1 (ModemBackup)
- **IPX Routing**
- **SNMP**
- **QoS Monitor**
  - Mean Opinion Score
- **Web Cache**
- **Net Link Mgr**
- **Alarm Service**
- **NAT**
  - LAN 1/2
  - WAN 1/2
  - V90-1 (ModemBackup)
- **VPN**
  - PPTP
  - IPSec
    - Branch Office Accounts
    - Remote User Accounts
- **Policy Management**
  - QoS
    - Policies
    - Actions
    - Devices
    - Rules
  - COPS Client
    - Status and Statistics
    - Configuration
  - Policy Agent
  - IP Firewall Filters
  - LAN 1/2
  - WAN 1/2
  - V90-1 (ModemBackup)

Management and Diagnostics

- **Management**
  - User Manager
  - Alarm Manager
- **Diagnostics**
  - MSC
    - System test log
    - System admin log
    - Network event log
    - DN-to-port conversion
    - Debug
  - Trunk Modules
    - Bus 02
      - Module X
      - Loopback tests
      - B channels
  - Trunk modules continued
    - CSU statistics
    - D channel
    - CSU statistics
  - Service Metrics
    - Telephony Services
      - CbC limit metrics
        - Pool PRI-A(-F)
          - Public
          - Tie
          - FX
          - Outwats
          - Inwats (800)
      - Hunt Group metrics
      - PSTN fallback metrics
  - Service Manager
  - System Status Monitor
  - Watchdog
  - Disk Mirroring
  - Unified Manager
    - Recording
    - Playback
  - Driver Debug

LAN Resources

LAN Parameters			
Fast Routing	**Disabled** Enabled	**Decrement TTL**	**Disabled** Enabled
Traffic smoothing	Disabled 5 10 15 20 25 30 35 **40** 45 50		

LAN1 Summary			
IP Address		**Subnet Mask**	
Connection Type	**Auto Sense** 10 MB Half 10 MB Full 100 MB Half 100 MB Full		
Admin Status	Disabled **Enabled**		
Primary Wins Address			
Secondary Wins Address			

LAN1 Additional IP Addresses		
Range	**IP Address**	**Subnet Mask**

LAN2 Summary			
IP Address		**Subnet Mask**	
Connection Type	**Auto Sense** 10 MB Half 10 MB Full 100 MB Half 100 MB Full		
Admin Status	Disabled **Enabled**		
Primary Wins Address			
Secondary Wins Address			

LAN2 Additional IP Addresses		
Range	**IP Address**	**Subnet Mask**

Media Services Card Resources (use for both WAN1 and WAN2)

Copy this page if you are adding more than 70 WAN PPP Passwords.

WAN PPP Passwords					
P#	PPP User Name	PPP Password	P#	PPP User Name	PPP Password

Media Services Card parameters

WAN__ Summary			
IP Address		**Subnet Mask**	
Link Protocol	**Frame Relay** PPP		
Admin Status	Disabled **Enabled**	**Frame Size**	

WAN__ Line Parameters			
Channel Rate	**64K** 56K	**Line Coding**	**B8ZS** AMI
Clock Source	**External** Internal	**Line Polarity**	**Normal** Inverted
Frame Type	**ESF** SF(D4)	**Pulse Density**	**Disabled** Enabled
Channel List			

WAN__ PPP Parameters			
LCP Keep Alive Interval		**User Name**	
LQR Timer Period		**Password**	
Authentication Mode	**None** PAP or CHAP CHAP only	**Compression**	**Disabled** Enabled
Outgoing Authentication	**ComputerName-Password** UserName-Password		

WAN__ Frame Relay			
LMI Type	**Original LMI** ANSI T1.617 Annex D ITU-T Q.933 Annex A	**Monitored Events**	
Polling Interval		**DS Code**	
Full Enquiry Interval		**Compression Enabled PVCs**	
Error Threshold		**Access Rate**	

WAN__ Additional IP Addresses		
Range	**IP Address**	**Subnet Mask**

Copy this page if you are adding more than 30 PVC Congestion Control entries.

Media Services Card__ PVC Congestion Control				
Entry	**DLCI**	**CIR**	**Committed Burst BC**	**Excess Burst BE**

Dial Up Resources

If you are using dial-up connections to your LAN or WAN, use these records to record the settings.

RAS Server TCP/IP Configuration	
Allow Network Access	Yes No
Static IP Address Pool	
Address Mask	

V.90 Modem parameters

V.90 Summary parameters	
IP Address	RemoteAssigned
Status	Enabled Disabled Connect Disconnect

V.90 Link parameters			
Telephone Number		**Speaker Mode**	**Enabled** Disabled
Alternate Telephone Number		**IP Header Compression**	**Enabled** Disabled
Connect Rate	57600 38400 19200 9600 4800	**Software Compression**	**Enabled** Disabled
Dial Retries		**Hardware Compression**	**Enabled** Disabled
Dial Interval		**PPP LCP Extensions**	**Enabled** Disabled

V.90 Access parameters	
Authentication	**AllowClearText** EncryptedOnly
Two Way Authentication	Enabled **Disabled**
User ID (name password)	

ISDN Dial Up parameters

Copy this page for each ISDN Dial Up interface you add.

Add ISDN Dial Up			
(Dial In) Name		**Password**	
Channel	ISDN1 ISDN2 ISDN3 ISDN4 ISDN5 ISDN6 ISDN7 ISDN8 ISDN9 ISDN10 ISDN11 ISDN12 ISDN13 ISDN14 ISDN15 ISDN16		

ISDN Summary parameters	
IP Address	RemoteAssigned
Description	Nortel Networks BCM ISDN interface
Status	Enabled Disabled Connect Disconnect

ISDN Link parameters			
Dial Retries	3	**Disconnect Time**	PersistantConnection _____
Dial Interval	60	**DNS Address 1**	nonameserveraddressused
IP Header Compression	**Enabled** Disabled	**DNS Address 2**	nonameserveraddressused
Software Compression	**Enabled** Disabled	**Protocol**	TCP/IP IPX Both
PPP LCP Extensions	**Enabled** Disabled		

ISDN Access parameters		**ISDN Dial-out User parameters**	
Authentication	**AllowClearText** EncryptedOnly	**User Name**	User
Two Way Authentication	**Enabled** Disabled	**Password**	********

ISDN Channel Characteristics

Row	**Port**	**Phone 1**	**Phone 2**	**Line Type**	**Fallback**
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No
				56K 64K	Yes No

PPOE

Copy this page for each PPPoE Dial Up interface you add.

Add PPPoE Dial Up			
Name		**Password (optional)**	

PPPoE Summary parameters			
IP Address	RemoteAssigned	**Status**	Connect Disconnect
Description			

PPPoE Link parameters			
Dial Retries	3 _____	**Disconnect Time**	PersistantConnection _____
Dial Interval	60 _____	**DNS Address 1**	nonameserveraddressused _____
IP Header Compression	**Enabled** Disabled	**DNS Address 2**	nonameserveraddressused _____
Software Compression	**Enabled** Disabled	**Protocol**	TCP/IP
PPP LCP Extensions	**Enabled** Disabled		

PPPoE Access parameters			
Authentication	**AllowClearText** EncryptedOnly	**Two Way Authentication**	Enabled **Disabled**

PPPoE Dial-out User parameters			
User Name	User _____	**Password**	******** _____

PPPoE Channel Characteristics			
Row	**Port**	**Row**	**Port**

Media Services Card (MSC) Resources

Media Services Card (MSC) settings determine how the system handles voice traffic.

MSC Configuration		
Active Configuration	**Default** Custom 1 Custom 2 Custom 3	
Custom 1 Name		
Custom 2 Name		
Custom 3 Name		

MSC Custom 1		
Component	**Minimum**	**Maximum**
IP Clients		
IP Trunks		
Media Gateways		
Voice Ports		
Fax		
WAN		

MSC Custom 2		
Component	**Minimum**	**Maximum**
IP Clients		
IP Trunks		
Media Gateways		
Voice Ports		
Fax		
WAN		

MSC Custom 3		
Component	**Minimum**	**Maximum**
IP Clients		
IP Trunks		
Media Gateways		
Voice Ports		
Fax		
WAN		

Identifying lines and modules

Note the lines numbers and DNs your system has activated, either through media bay modules, voice over IP (VoIP) lines, or target lines. This section includes tables that show the switch settings for each type of media bay module.

Voice over IP lines*

(circle the VoIP lines that you have keycodes for)

***Refer to Voice over IP trunks on page 32 for VoIP system setup**	001	002	003	004	005	006	007	008	009	010
	011	012	013	014	015	016	017	018	019	020
	021	022	023	024	025	026	027	028	029	030
	031	032	033	034	035	036	037	038	039	040
	041	042	043	044	045	046	047	048	049	050
	051	052	053	054	055	056	057	058	059	060

Notes

- You cannot mix line types in a line pool. VoIP trunks can only be in line pools with other VoIP trunks.
- VoIP trunks can be used to create an MCDN network link.

Active application DNs and IP telephone DNs

Application DNs, such as CallPilot, and telephony DNs like DISA, are obtained from the same MSC source as IP telephony DNs. You must ensure that the system assigns these DNs only in one place.

Application or IP telephone name	DNs/DN range	Assigned

Media Bay Module Lines and DNs

Refer to the section below for the DIP switch settings for each type of module. Then, in the chart below, color in the position of the switch beside each DS30 bus for which you are installing a module.

DS30	DIP switch settings							Type of module	Position in hardware	Lines/DN ranges	Notes:
		1	2	3	4	5	6				
2	ON										
	OFF										
3	ON										
	OFF										
4	ON										
	OFF										
5	ON										
	OFF										
6**	ON										
	OFF										
*7**	ON										
	OFF										

* If your system is set to a 3/5 DS30 split, this bus is used by IP telephones and cannot accommodate a media bay module.
** If your system is set to Full Double Density (FDD), Companion is not supported on the system.
NOTE: A position 1 DIP switch set to OFF, indicates that the module is set to double density.

Media Bay Modules settings

Configuration notes:

- If your system is configured with a 3/5 DS30 channel split, DS30 bus 7 is not available to media bay modules.
- The extensions listed (DNs) are based on a the default three-digit DN with a Start DN of 221. If your system has longer DNs or a different Start DN, enter the range in the Custom DNs column. Remember, if your system is part of a private network, your DN length and range must meet network parameters.
- Note the settings you choose for your media bay modules on the chart under Media Bay Module Lines and DNs on page 25 to create a system record.
- You will note that the second-level DNs (17-32) for systems upgraded from 2.5 to 3.0 are not consecutive to the first 16 DNs. This was done so that you would not need to update all your existing telephones when you upgraded to Business Communications Manager 3.0. On new 3.0 systems, the DNs are consecutive for each 32-DN set.

DTM switch settings

Select bus	Enter these switch settings						To assign these lines	
	1	2	3	4	5	6	T1	NA PRI
2	on	on	on	on	on	on	211-234	211-233
3	on	on	on	on	on	off	181-204	181-203
4	on	on	on	on	off	on	151-174	151-173
5	on	on	on	on	off	off	121-144	121-143
6	on	on	on	off	on	on	91-114	91-113
7	on	on	on	off	on	off	61-84	61-83

Select DS30	Enter these switch settings						To assign these lines	
	1	2	3	4	5	6	E1	UK PRI
2	on	on	on	on	on	on	211-240	211-240
3	on	on	on	on	on	off	181-210	181-210
4	on	on	on	on	off	on	151-180	151-180
5	on	on	on	on	off	off	121-150	121-150
6	on	on	on	off	on	on	91-120	91-120
7	on	on	on	off	on	off	61-90	61-90

BRI settings switch settings

Select bus	Select offset	Enter these switch settings						To assign these lines to a BRI module
		1	2	3	4	5	6	
2	0	on	on	on	on	on	on	211-218
	1	on	on	off	on	on	on	219-226
	2	on	off	on	on	on	on	227-234
3	0	on	on	on	on	on	off	181-188
	1	on	on	off	on	on	off	189-196
	2	on	off	on	on	on	off	197-204
4	0	on	on	on	on	off	on	151-158
	1	on	on	off	on	off	on	159-166
	2	on	off	on	on	off	on	167-174

Select DS30	Select offset	Enter these switch settings						To assign these lines to a BRI module
		1	2	3	4	5	6	
5	0	on	on	on	on	off	off	121-128
	1	on	on	off	on	off	off	129-136
	2	on	off	on	on	off	off	137-144
6	0	on	on	on	off	on	on	91-98
	1	on	on	off	off	on	on	99-106
	2	on	off	on	off	on	on	107-114
7	0	on	on	on	off	on	off	61-68
	1	on	on	off	off	on	off	69-76
	2	on	off	on	off	on	off	77-84

CTM, CTM8 and 4X16 (CTM/DSM) switch settings

Select bus	Select offset	Enter these switch settings						To assign these lines to a CTM	To assign these lines to a CTM8		To assign these lines to a 4X16	And this DS30 channel and DNs	**Custom DN range
		1	2	3	4	5	6		Lower (Lines 1-4)/ Upper (lines 5-8)		CTM portion	DSM portion	
2	0	on	on	on	on	on	on	211-214	211-214 / 219-222		211-214	CH 3 237-252	
	1	on	on	off	on	on	on	219-222	219-222 / 227-230		219-222		
	2	on	off	on	on	on	on	227-230	227-230 / 235-238		227-230		
	3	on	off	off	on	on	on	235-238	N/A	N/A	235-238		
3	0	on	on	on	on	on	off	181-184	181-184 / 189-192		181-184	CH 4 253-268	
	1	on	on	off	on	on	off	189-192	189-192 / 197-200		189-192		
	2	on	off	on	on	on	off	197-200	197-200 / 205-208		197-200		
	3	on	off	off	on	on	off	205-208	N/A	N/A	205-208		
4	0	on	on	on	on	off	on	151-154	151-154 / 159-162		151-154	CH 5 269-284	
	1	on	on	off	on	off	on	159-162	159-162 / 167-170		159-162		
	2	on	off	on	on	off	on	167-170	167-170 / 175-178		167-170		
	3	on	off	off	on	off	on	175-178	N/A	N/A	175-178		

Select bus	Select offset	Enter these switch settings						To assign these lines to a CTM	To assign these lines to a CTM8		To assign these lines to a 4X16	And this DS30 channel and DNs	**Custom DN range
		1	2	3	4	5	6		Lower (Lines 1-4)/ Upper (lines 5-8)		CTM portion	DSM portion	
5	0	on	on	on	on	off	off	121-124	121-124 / 129-132		121-124	CH 6 285-300	
	1	on	on	off	on	off	off	129-132	129-132 / 137-140		129-132		
	2	on	off	on	on	off	off	137-140	137-140 / 145-148		137-140		
	3	on	off	off	on	off	off	145-148	N/A	N/A	145-148		
6	0	on	on	on	off	on	on	91-94	91-94 / 99-102		91-94	CH 7 301-316	
	1	on	on	off	off	on	on	99-102	99-102 / 107-110		99-102		
	2	on	off	on	off	on	on	107-110	107-110 / 115-118		107-110		
	3	on	off	off	off	on	on	115-118	N/A	N/A	115-118		
7	0	on	on	on	off	on	off	61-64	61-64 / 69-72		N/A		
	1	on	on	off	off	on	off	69-72	69-72 / 77-80				
	2	on	off	on	off	on	off	77-80	77-80 / 85-88				
	3	on	off	off	off	on	off	85-88	N/A	N/A			

ASM 8 switch settings

Select bus	Select offset	Enter these switch settings						To assign these DNs	Select offset	Enter these switch settings						To assign these DNs	**Custom DN range
		1	2	3	4	5	6			1	2	3	4	5	6		
	2.5 system upgraded to 3.0								New 3.0 system								
2	0	on	on	on	on	on	on	221-228	0	on	on	on	on	on	on	221-228	
	1	on	on	off	on	on	on	228-236	1	on	on	off	on	on	on	228-236	
	2	on	off	on	on	on	on	377-384	2	on	off	on	on	on	on	237-244	
	3	on	off	off	on	on	on	385-392	3	on	off	off	on	on	on	245-252	
3	0	on	on	on	on	on	off	237-244	0	on	on	on	on	on	off	253-260	
	1	on	on	off	on	on	off	245-252	1	on	on	off	on	on	off	261-268	
	2	on	off	on	on	on	off	393-400	2	on	off	on	on	on	off	269-275	
	3	on	off	off	on	on	off	401-408	3	on	off	off	on	on	off	276-284	
4	0	on	on	on	on	off	on	253-260	0	on	on	on	on	off	on	285-292	
	1	on	on	off	on	off	on	261-268	1	on	on	off	on	off	on	293-300	
	2	on	off	on	on	off	on	409-416	2	on	off	on	on	off	on	301-308	
	3	on	off	off	on	off	on	417-424	3	on	off	off	on	off	on	309-316	
5	0	on	on	on	on	off	off	269-276	0	on	on	on	on	off	off	317-324	
	1	on	on	off	on	off	off	277-284	1	on	on	off	on	off	off	325-332	
	2	on	off	on	on	off	off	425-432	2	on	off	on	on	off	off	333-340	
	3	on	off	off	on	off	off	433-440	3	on	off	off	on	off	off	341-348	

Select bus	Select offset	Enter these switch settings						To assign these DNs
		1	2	3	4	5	6	
6	0	on	on	on	off	on	on	285-292
	1	on	on	off	off	on	on	293-300
	****2	on	off	on	off	on	on	441-448
	****3	on	off	off	off	on	on	449-456
7***	0	on	on	on	off	on	off	301-308
	1	on	on	off	off	on	off	309-316
	*****2	on	off	on	off	on	off	457-454
	*****3	on	off	off	off	on	off	455-472

Select offset	Enter these switch settings						To assign these DNs	**Custom DN range
	1	2	3	4	5	6		
0	on	on	on	off	on	on	349-356	
1	on	on	off	off	on	on	357-364	
****2	on	off	on	off	on	on	365-372	
****3	on	off	off	off	on	on	373-380	
0	on	on	on	off	on	off	381-388	
1	on	on	off	off	on	off	389-396	
*****2	on	off	on	off	on	off	397-404	
*****3	on	off	off	off	on	off	405-412	

** The extensions listed are based on a three-digit DN with a Start DN of 221. If your system has longer DNs or a different Start DN, enter the range in the blank column.

*** If your system is configured with a 3/5 DS30 split, DS30 07 is not available.

****Available only on systems set to FDD.

*****Available only on systems set to FDD, with a 2/6 DS30 split.

DECT module switch settings

The DECT module has the same switch settings as the DSM16 (single density). It should be installed on either DS30 06 or 07. DN range (maximum of 32 handsets): 2.0 upgrades: 501-532; 2.5/3.0 systems: 597-624, plus four from the Companion DN range (565-596).

DSM16/16+ and DSM 32/32+ single density settings (upgraded 2.5 system)

Select DS30 bus	Enter these switch settings						**To assign these DNs to DSM16 or DSM 16+	To assign these DNs to DSM 32 or DSM 32+	To assign these DNs to Companion
	1	2	3	4	5	6			
2	on	on	on	on	on	on	221-236	221-252 (DS30 2 and 3)	N/A
3	on	on	on	on	on	off	237-252	237-268 (DS30 3 and 4)	
4	on	on	on	on	off	on	253-268	253-284 (DS30 4 and 5)	
5	on	on	on	on	off	off	269-284	269-300 (DS30 5 and 6)	
6	on	on	on	off	on	on	285-300	285-316 (DS30 6 and 7)	565-580**** **(PDD only)**
***7	on	on	on	off	on	off	301-316	N/A	581-596**** **(PDD only)**

**The extensions listed are based on a three-digit DN with a Start DN of 221. If your system has longer DNs or a different Start DN, enter the range in the blank column.

***If your system is configured with a 3/5 DS30 DS30 split, you cannot use DS30 07 for the DSM 16 module. You cannot configure the DSM32 module for DS30 06 because the second set of DNs cannot be accessed.

****To add more DNs for Companion sets, use the range that starts at 597 (ISDN or DECT) and change the DN type to Companion.

*****If you system is set to Full Double Density (FDD), Companion telephones are not supported.

DSM16+ and DSM 32+ double density settings (upgraded 2.5 system)

Select DS30 bus	Enter these switch settings							**To assign these DNs to DSM 16+: (A= DSM1, B=DSM2)		To assign these DNs to DSM 32+ (connectors: A=top, B = bottom)	
	1	2	3	4	5	6					
2	off	on	on	on	on	on	A	221-236	A	377-392	
	off	on	off	on	on	on	B	377-392	B		221-236
3	off	on	on	on	on	off	A	237-252	A	393-408	
	off	on	off	on	on	off	B	393-408	B		237-252
4	off	on	on	on	off	on	A	253-268	A	409-424	
	off	on	off	on	off	on	B	409-424	B		253-268
5	off	on	on	on	off	off	A	269-284	A	425-440	
	off	on	off	on	off	off	B	425-440	B		269-284
6	off	on	on	off	on	on	A	285-300	A	441-456****	
	off	on	off	off	on	on	B	441-456****	B		285-300
***7	off	on	on	off	on	off	A	301-316	A	457-472*****	
	off	on	off	off	on	off	B	457-472*****	B		301-316*****

**The extensions listed are based on a three-digit DN with a Start DN of 221. If your system has longer DNs or a different Start DN, enter the range in the blank column.

***If your system is configured with a 3/5 DS30 split, you cannot use DS30 07 for the DSM 16 module.

****Available only on systems set to FDD. Modules cannot be set to double density on systems set to PDD. Refer to the previous chart for the switch settings for single density and PDD.

*****Available only on systems set to FDD, with a 2/6 DS30 split. Modules cannot be set to double density on systems set to PDD. Refer to the previous chart for the switch settings for single density and PDD.

DSM16/16+ and DSM 32/32+ single density settings (new system)

Select DS30 bus	Enter these switch settings						**To assign these DNs to DSM 16 or DSM 16+	To assign these DNs to DSM 32 or DSM 32+ Top	Bottom	To assign these DNs to Companion
	1	2	3	4	5	6				
2	on	on	on	on	on	on	221-236	253-268	221-236	N/A
3	on	on	on	on	on	off	253-268	285-300	253-268	
4	on	on	on	on	off	on	285-300	317-332	285-300	
5	on	on	on	on	off	off	317-332	349-364	317-332	
6	on	on	on	off	on	on	349-364	381-396	349-364	565-580**** **(PDD only)**
***7	on	on	on	off	on	off	381-396	N/A		581-596**** **(PDD only)**

**The extensions listed are based on a three-digit DN with a Start DN of 221. If your system has longer DNs or a different Start DN, enter the range in the blank column.

***If your system is configured with a 3/5 DS30 split, you cannot use DS30 07 for the DSM 16 module. You cannot configure the DSM32 module for DS30 06 because the second set of DNs cannot be accessed.

****To add more DNs for Companion sets, use DNs starting at 597 (ISDN or DECT) and change the DN type to Companion.

*****If you system is set to Full Double Density (FDD), Companion telephones are not supported.

DSM16+ and DSM 32+ double density settings (new system)

Select DS30 bus	Enter these switch settings							To assign these DNs to DSM 16+: A= DSM1, B=DSM2		To assign these DNs to DSM 32+ (connectors: A=top, B = bottom)	
	1	2	3	4	5	6					
2	off	on	on	on	on	on	A	221-236	A	237-252	
	off	on	off	on	on	on	B	237-252	B		221-236
3	off	on	on	on	on	off	A	253-268	A	269-284	
	off	on	off	on	on	off	B	269-284	B		253-268
4	off	on	on	on	off	on	A	285-300	A	301-316	
	off	on	off	on	off	on	B	301-316	B		285-300
5	off	on	on	on	off	off	A	317-332	A	333-348	
	off	on	off	on	off	off	B	333-348	B		317-332
6	off	on	on	off	on	on	A	349-364	A	365-380****	
	off	on	off	off	on	on	B	365-380****	B		349-364
***7	off	on	on	off	on	off	A	381-396	A	397-412*****	
	off	on	off	off	on	off	B	397-412*****	B		381-396

**The extensions listed are based on a three-digit DN with a Start DN of 221. If your system has longer DNs or a different Start DN, enter the range in the blank column.

***If your system is configured with a 3/5 channel split, you cannot use DS30 07.

****Available only on systems set to FDD. Modules cannot be set to double density on systems set to PDD. Refer to the previous chart for the switch settings for single density and PDD.

*****Available only on systems set to FDD, with a 2/6 DS30 split. Modules cannot be set to double density on systems set to PDD. Refer to the previous chart for the switch settings for single density and PDD.

DDI Mux module switch settings

DS30 channel	Enter these switch settings						Assigns these lines numbers	Data Module DS30 channel
	1	2	3	4	5	6		
2	on	on	on	on	on	on	211-234	**3**
3	on	on	on	on	on	off	181-204	**4**
4	on	on	on	on	off	on	151-174	**5**
5	on	on	on	on	off	off	121-144	**6**
6	on	on	on	off	on	on	91-114	**7***
7							N/A	**

* If your system is configured with a 3/5 DS30 split, you cannot use DS30 06 for the DDI Mux. When you use a 3/5 split, DS30 07 is not available for the data module portion of the DDI Mux.

** You cannot use DS30 07 for the DDI Mux. If you assign DS30 07, there is no DS30 channel available for the data module portion of the DDI Mux.

DDI Mux module configuration settings

Work site			
Address			
Telephone #		**Installer:**	
Install date			
Notes			
Module settings			
Protocol	**V.35** ❑		
Fixed Access	Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____	Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____	Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____ Line ____ Channel ____
Loopback State	**Off** ❑	Manual DTE ❑	Manual DS30 ❑ Automatic DTE ❑

Installed telephones and other hardwired devices

Copy this page before using.

Have the technician who wires your internal telephone ports fill out this list.

Using the list, fill out a Telephone Record for each telephone that you activate. Each list provides the entries for one DS30 bus that has media bay modules assigned to use all the offsets.

DS30 BUS #						
Name or location	**Module Port**	**Telephones Single density (16 lines per DS30)**	**Telephones Double density (32 lines per DS30)***	**First module DN range**	**Second module DN range**	**Third module DN range**
	X01	1	17			
	X02	2	18			
	X03	3	19			
	X04	4	20			
	X05	5	21			
	X06	6	22			
	X07	7	23			
	X08	8	24			
	X09	9	25			
	X10	10	26			
	X11	11	27			
	X12	12	28			
	X13	13	29			
	X14	14	30			
	X15	15	31			
	X16	16	32			

* If you are working with an upgraded system, you will note that the second level of 16 DNs (17-32) are not consecutive to the first 16 DNs. This was done so that you would not have to change your existing telephone DNs after you upgraded your 2.5 system to Business Communications Manager 3.0. Remember that you can run the DN Renumbering Wizard if you want to realign the DNs once you have configured your telephones.

Voice over IP trunks

If any of the trunks on your system are VoIP trunks, complete the following tables.

Each remote network connection (gateway) must also be configured. Refer to Remote Gateway programming on page 34)

System Configuration

Echo cancellation	Enabled Disabled **Enabled w/NLP**			
G.723.1 Data Rate	5.3 kbp **6.3 kbps**		**Reserved Media Gateway Codec**	G.711 G.729 G.723

H.323 Trunks

Published IP address	(Must be LAN or WAN card)			
Codec settings: No two preferences can use the same codecs				
1st Preferred Codec			**2nd Preferred Codec**	
3rd Preferred Codec			**4th Preferred Codec**	
Silence Compression	**Disabled**Enabled			
Jitter Buffer	**NONE** AUTO SMALL MEDIUM LARGE			
Fallback to Circuit Switched	**Enabled-All** Enabled-TDM-only Disabled			
Call Signaling	**Direct** GatekeeperResolved GatekeeperRouted			
Gatekeeper IP			**Alias Names**	
Registration TTL	(seconds)		**Gateway Protocol**	None SL1 CSE

Remote Gateway programming

Complete the following table for every Remote Gateway.

If you have more than two Remote Gateways, make duplicates of this page.

Remote Gateway			
Name		**Destination IP**	
QoS Monitor	**Disabled** Enabled		
Transmit Threshold		**Receive Threshold**	
Gateway Type	BCM 3.0 BCM 2.5 BCM 2.0 ITG IMS CSE 1000 CS 3000 Netmeeting	**Gateway Protocol**	None SL1 CSE
Destination Digits			
Fallback Route	(Must be physical line to same destination, such as T1 or SL-1 MCDN)		
Comments			

Remote Gateway			
Name		**Destination IP**	
QoS Monitor	**Disabled** Enabled		
Transmit Threshold		**Receive Threshold**	
Gateway Type	BCM 3.0 BCM 2.5 BCM 2.0 ITG IMS CSE 1000 CS 3000 Netmeeting	**Gateway Protocol**	None SL1 CSE
Destination Digits			
Fallback Route	(Must be physical line to same destination, such as T1 or SL-1 MCDN)		
Comments			

Network settings

To establish a telephony network, you need to ensure that your numbering plan and dialing rules coordinate with the other nodes in the network.

Define the dialing plans your system will use.

- Public networks are networks where the system dials into the public network (PSTN).
- Private networks are networks where all the systems chained together have a dedicated line or connection between each node.

Use the following table to define the parameters your system will use to dial other networks.

Dialing Plan

Services, Telephony Services, General Settings

Dialing Timeout	

Private Network	**Dialing plan type**	**Private Network ID**
	None	N/A
	UDP	
	CDP	

Location code	**Private DN length**
N/A	N/A
	N/A

Notes:

Public Network								
Public DN lengths	**DN prefix**	**DN length**	**DN prefix**	**DN length**	**DN prefix**	**DN length**	**DN prefix**	**DN length**
	Default	7	411	3				
	0	11	911	3				
	00	12						
	01	17						
	011	18						
	1	11						

PRI networks

(system settings)

MCDN (PRI SL-1 or VoIP) (North American and ETSI DPNSS)	
NetwkICCL	Y N
TRO	Y N
TAT	Y N

ETSI Euro	
NetwkDiversion	Y N
MCID	Y N

Describing the networks

Complete an entry for every network node that is connected to your Business Communications Manager, including connections to the public network (PSTN).

Network Trunks

(enter your system first)							
Node type (M1, BCM, Norstar, PSTN)	**Location name**	**Network ID**	**Start and End DNs**	**DN type**	**Line pool or Route number (your system)**	**Destination/ access code/ dial string to remote node**	**Destination/ access code/ dial string from remote node**
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			
				PRIV PUB			

Complete an entry for each node on the private network that is not connected directly to your Business Communications Manager.

Remote nodes on telephony network

Node type (M1, BCM, Norstar, PSTN)	Location name	Network ID	Start and End DNs	Line pool or Route number (from your system)	Location of node that routes to remote node	Destination/ access code/ dial string to remote node	Destination/ access code/ dial string from remote node

Wireless base station programming

If you choose to add a wireless product to your system, fill out the appropriate charts below to keep track of the hardware and system configurations.

Companion programming charts

The next four pages contain charts specific to programming the Companion information.

This form records your Companion system setup. Remember, you must also fill out a DN record for each handset to determine lines and restrictions.

Companion Registration					
Registration Enabled		Y N	**Notes:**		
Credits					
Registration Password					
DN	**DN status (check each DN in service)**	**Answer DN (stationary telephone assigned to this set)**	**DN**	**DN status (check each DN in service)**	**Answer DN (stationary telephone assigned to this set)**
565			**580**		
566			**581**		
567			**582**		
568			**583**		
569			**584**		
570			**585**		
571			**586**		
572			**587**		
573			**588**		
574			**589**		
575			**590**		
576			**591**		
577			**592**		
578			**593**		
579			**594**		
Note: Ensure the DN type is set to Companion			**596**		

Companion Radio data							
System LID							
Radio #	Cell Assignment		Antenna Type		Radio#	Cell Assignment		Antenna Type	
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External
	Internal	External	Internal	External		Internal	External	Internal	External

T7406 base station programming

Base station 1		Base station 2	
Security code:		Security code:	
Location:		Location:	
Port 1 DN		Port 1 DN	
Port 2 DN		Port 2 DN	
Port 3 DN		Port 3 DN	

DECT base station programming

You can have a maximum of eight base stations for your decks system. Eight stations will support a maximum of 32 DECT handsets. The records for these handsets are in the ISDN/DECT DN range.

DECT system record			DS30 channel:		
Base Station	DECT module port #	Location	Base Station	DECT module port	Location
1			5		
2			6		
3			7		
4			8		

DN defaults: 597 to 624	Assigned? (A)	DN	Assigned? (A)	DN	Assigned? (A)

Note: If you use DNs from the Companion range, change the DN Type to ISDN/DECT.

Return to Programming Record forms

Data Settings

NORTEL NETWORKS™

Contents: Data Settings

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DHCP

DHCP Summary		
Status	Enabled	Disabled

DHCP Mode		
DHCP Mode	DHCPServer	DHCPRelayAgent

DHCP Relay Agent

DHCP global options		
Log Level	Errors Only Maximum	Warnings Also Disabled

DHCP Server List	
IP Address	

Relay Agent Interface Options – LAN1				
Relay DHCP packets	Enabled	Disabled	**Seconds-since-boot threshold**	
Hop-count threshold				

Relay Agent Interface Options – LAN2				
Relay DHCP packets	Enabled	Disabled	**Seconds-since-boot threshold**	
Hop-count threshold				

DHCP Server

DHCP global options				
IP Domain Name				
WINS Node Type	1	2	4	8
NORTEL IP Terminal Information			**NORTEL IP Terminal VLAN Id**	

Local Scope – LAN1

Scope Specific Options – LAN1					
Name			**Description**		
DNS Server					
WINS Server			**Lease Time**		
Default Gateway			**Scope Status**	Enabled	Disabled

Address Range – LAN1					
Range	**Start Address**	**End Address**	**Range**	**Start Address**	**End Address**

Excluded Address – LAN1						
Range	**Start Address**	**End Address**		**Range**	**Start Address**	**End Address**

Reserved Address – LAN1						
Range	**IP Address**	**MAC Address**	**Client Name**	**Client Description**	**Lease Expiration date**	**Lease Expiration time**

Local Scope – LAN2

Scope Specific Options – LAN2				
Name			**Description**	
DNS Server				
WINS Server			**Lease Time**	
Default Gateway			**Scope Status**	Enabled Disabled

Address Range – LAN2					
Range	**Start Address**	**End Address**	**Range**	**Start Address**	**End Address**

Excluded Address – LAN2						
Range	**Start Address**	**End Address**		**Range**	**Start Address**	**End Address**

Reserved Address – LAN2						
Range	**IP Address**	**MAC Address**	**Client Name**	**Client Description**	**Lease Expiration Date**	**Lease Expiration Time**

Remote Scope

Copy this page for each Remote Scope you are adding.

Add Remote Scope				
Subnet name			**IP Address**	
Subnet Comment			**Subnet Mask**	

Remote Scope Specific Options				
Name			**Description**	
DNS Server				
WINS Server			**Lease Time**	
Default Gateway			**Scope Status**	Enabled Disabled

Remote Address Range						
Range	**Start Address**	**End Address**		**Range**	**Start Address**	**End Address**

Copy this page for each Remote Scope you are adding.

Remote Excluded Address					
Range	**Start Address**	**End Address**	**Range**	**Start Address**	**End Address**

Remote Reserved Address				
Range	**IP Address**	**MAC Address**	**Client Name**	**Client Description**

DNS

DNS Summary				
Status	Enabled	Disabled	**IP Domain**	
Primary (and Secondary) Server			**Forward Timeout**	

IP Routing

RIP Global Settings		
RIP Log Level	Errors Only Warnings Also Maximum Disabled	
Triggered Update Interval		

OSPF Global Settings				
OSPF Log Level	Errors Only Warnings Also Maximum Disabled			
Router ID		**Authentication Type**	**None**	Password
Router Area ID				

IP Routing Summary	
Interface	**Routing Protocol**
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None
	RIP OSPF None

RIP

RIP Parameters						
Interface						
Metric						
Routing Table Update Mode	Periodic On Demand	Periodic On Demand	Periodic On Demand	Periodic On Demand	Periodic On Demand	Periodic On Demand
Route Announcement Type	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible
Route Accept Type	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible	Disabled RIP1 RIP2 RIP1 Compatible
Route Expiration Interval						
Route Removal Interval						
Route Announcement Interval						
Route Tag						
Poisoned Reverse	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned
Triggered Updates	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned
Announce Default Route	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned
Accept Default Route	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned	**Split** Actual Poisoned

OSPF

OSPF Parameters				
Interface	**LAN1**	**LAN2**	**WAN1**	**WAN2**
Metric				
Interface Type	**Broadcast** P2P NMBA	**Broadcast** P2P NMBA	**Broadcast** P2P NMBA	**Broadcast** P2P NMBA
Router Priority				
Transit Delay				
Retransmit Interval				
Hello Interval				
Dead Interval				
Poll Interval				
MTU				
Password				

Copy this page if you need more than 35 NMBA Neighbors to a WAN interface.

OSPF NMBA Neighbors

WAN1			WAN2		
OSPF Neighbor	**Neighbor Address**	**Neighbor Priority**	**OSPF Neighbor**	**Neighbor Address**	**Neighbor Priority**

Static Routes

Copy this page for each interface to which you want to add Static Routes.

Static Routes Parameters				
Interface	**LAN 1 WAN1 WAN2 V90-1 (ModemBackup)**			
Static Route	**Destination Address**	**Destination Mask**	**Next Hop Router**	**Metric Value**

IPX Routing

IPX Routing Summary	**Internal Network Number**				
IPX Global Settings	**IPX Log Level**	Errors Only	Warnings Also	Maximum	Disable
RIP Global Settings	**RIP Log Level**	Errors Only	Warnings Also	Maximum	Disable
SAP Global Settings	**SAP Log Level**	Errors Only	Warnings Also	Maximum	Disable

IPX Packet Filters

Copy this page for each interface to which you want to add IPX Input Filters or if you need more than 10 Input Filters.

IPX Filter Packet Summary Settings					
Interface			**Input Filter Action**	**Deny**	Permit
Network Number			**Output Filter Action**	**Deny**	Permit
Frame Type	Ethernet II	Ethernet 802.2	Ethernet 802.3	Ethernet SNAP	Default

Packet Input Filters					
Packet Input Filter					
Source Network Number					
Source Network Mask					
Source Node					
Source Socket					
Destination Network Number					
Destination Network Mask					
Destination Node					
Destination Socket					
Packet Type					

Packet Input Filter					
Source Network Number					
Source Network Mask					
Source Node					
Source Socket					
Destination Network Number					
Destination Network Mask					
Destination Node					
Destination Socket					
Packet Type					

Copy this page for each interface to which you want to add IPX Output Filters or if you need more than 10 Output Filters.

Packet Output Filters					
Packet Output Filter #					
Source Network Number					
Source Network Mask					
Source Node					
Source Socket					
Destination Network Number					
Destination Network Mask					
Destination Node					
Destination Socket					
Packet Type					

Packet Output Filter #					
Source Network Number					
Source Network Mask					
Source Node					
Source Socket					
Destination Network Number					
Destination Network Mask					
Destination Node					
Destination Socket					
Packet Type					

RIP Packet Filters

Copy this page for each interface to which you want to add IPX RIP Filters or if you need more than 20 Input or 20 Output Filters.

RIP Summary Settings					
Input Filter Action	**Deny**	Permit	**Output Filter Action**	**Deny**	Permit

RIP Parameters					
RIP State	**Enabled**	Disabled	**Update Mode**	Standard	Autostatic No Update
Advertise Routes	**Enabled**	Disabled	**Update Interval**		
Accept Route Advertisements	**Enabled**	Disabled	**Aging Interval Multiplier**		

RIP Input Filters

Input Filter	Network Number	Network Mask	Input Filter	Network Number	Network Mask

RIP Output Filters

Output Filter	Network Number	Network Mask	Output Filter	Network Number	Network Mask

SAP Packet Filters

Copy this page for each interface to which you want to add IPX SAP Filters or if you need more than 20 Input or 20 Output Filters.

SAP Summary Settings					
Input Filter Action	**Deny** Permit		**Output Filter Action**	**Deny** Permit	

SAP Parameters				
SAP State	**Enabled** Disabled		**Update Mode**	Standard Autostatic No Update
Advertise Service	**Enabled** Disabled		**Update Interval**	
Accept Service Advertisements	**Enabled** Disabled		**Aging Interval Multiplier**	

SAP Input Filters

Input Filter	Service Type	Service Name		Input Filter	Service Type	Service Name

SAP Output Filters

Ouput Filter	Service Type	Service Name		Output Filter	Service Type	Service Name

IPX Static routes

Copy this page for each interface to which you want to add IPX Static Routes and Services or if you need more than 17 Static Routes or 17 Static Services.

Static Routes for IPX

Static Route	Net Number	Next Hop Mac Address	Ticks	Hops

Static Services for IPX

Static Service	Type	Name	Network	Node	Socket	Hops

SNMP

SNMP Summary Settings			
Status	Enable Disable	**Authentication Failure Traps**	Enable Disable

SNMP Community

Community List	Community Name	Access Permission	Community List	Community Name	Access Permission
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write
		Read-Only Read-Write			**Read-Only** Read-Write

SNMP Manager

Manager List	Manager IP Address		Manager List	Manager IP Address

SNMP Trap Community

Trap List	Community Name	Manager IP Address		Trap List	Community Name	Manager IP Address

Web Cache

Web Cache Attributes			
Server Address		**Garbage Collection Interval (hours)**	
Cache Mode	**Enabled** Disabled	**Cache Maximum Life (hours)**	
Cache Size		**Maximum Server Threads**	

Net Link Mgr

Primary WAN Connection			
Mode	Permanent Dialup	**Status**	Enabled Disabled Up

Primary WAN Connection Settings — Permanent			
Next Hop on Primary Link			
Up Poll Interval (seconds)		**Switch Over Delay (seconds)**	
Down Poll Interval (seconds)		**Backup Dial-up Interface**	

Primary WAN Connection Settings — Dialup	
Primary Dial-up Interface	

NTP Client settings

NTP Client Settings			
NTP Server Address		**Set Time Every (seconds)**	
Maximum Time Adjustment (seconds)		**Minimum Time Adjustment (seconds)**	
Exit After Setting Time Once	**Enabled** Disabled	**NTPClient Service Start Type**	Automatic Manual

NAT

Copy this page for each interface you are configuring or if you need more than six NAT rules for an interface.

Interface	LAN 1 WAN1 WAN2 V90-1 (ModemBackup)
Status	Enabled Disabled

NAT Rule Order		
Default Rules	**Disabled**	Enabled - include IP phones Enabled - do not include IP phones
Rule Order	(Comma-separated R#)	

NAT Rule Settings			
Rule Name			
Direction	In Out Both	In Out Both	In Out Both
Protocol	IP TCP UDP TCP/UDP	IP TCP UDP TCP/UDP	IP TCP UDP TCP/UDP
Private IP Type	**Fixed**	**Fixed**	**Fixed**
Private IP			
Private Range Mask			
Private Port Range	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)
Public IP Type	**Fixed** Dynamic	**Fixed** Dynamic	**Fixed** Dynamic
Public IP			
Public Range Mask			
Public Port Range	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)

NAT Rule Settings (Continued)			
Rule Name			
Direction	In Out Both	In Out Both	In Out Both
Protocol	IP TCP UDP TCP/UDP	IP TCP UDP TCP/UDP	IP TCP UDP TCP/UDP
Private IP Type	**Fixed**	**Fixed**	**Fixed**
Private IP			
Private Range Mask			
Private Port Range	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)
Public IP Type	**Fixed** Dynamic	**Fixed** Dynamic	**Fixed** Dynamic
Public IP			
Public Range Mask			
Public Port Range	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)	ALL___ FTP___ Telnet___ SMTP___ SNMP___ SNMP-Trap___ DNS___ TFTP___ Gopher___ Finger___ HTTP___ H.323___ POP3___ NNTP___ RPC___ SUNNFS___ UNISTIM___ _____ (1-65535)

PPTP

PPTP Summary Settings			
Keep Alive Interval		**Max Retransmissions**	
Echo Timeout		**Client IP Authentication**	

PPTP Clients

Client	Client IP Address		Client	Client IP Address

PPTP Tunnels		
Tunnel Name	**Incoming Password**	**Port Name**
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10

PPTP Tunnels		
Tunnel Name	**Incoming Password**	**Port Name**
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10
		VPN1 VPN2 VPN3 VPN4 VPN5 VNP6 VNP7 VNP8 VNP9 VNP10

Copy this page for each PPTP tunnel you are configuring, or if you are adding more than 17 Destination Networks.

PPTP Tunnel Summary				
Interface			**IP Address**	
IP Address Mode	Local-Fixed RemoteAssigned		**Description**	
Status	Enabled **Disabled** Connect Disconnect			

PPTP Tunnel Link Parameters				
Remote PPTP Server - Primary			**Connection type**	Persistent On Demand
Remote PPTP Server - Secondary			**Idle timeout**	
Retry interval			**Data Compression**	Enabled Disabled
Connect retries	0 1 2 3 4 5 6 7 8 9 10			

PPTP Tunnel Authentication Parameters				
Authentication Type	AllowClearText EncryptedOnly Microsoft Encrypted Only			
Two Way Authentication	Enabled Disabled		**User ID**	
Data encryption	Enabled Disabled		**Password**	

PPTP Destination Networks

Entry	Destination Network	Subnet Mask	Preference Level

IPSec

IPSec global settings		
Encryption	☐ ESP-3DES-SHA1 ☐ ESP-3DES-MD5 ☐ ESP-DES56-SHA1 ☐ ESP-DES56-MD5	☐ ESP-DES40-SHA1 ☐ ESP-DES40-MD5 ☐ AH-Authentication_Only(SHA1) ☐ AH-Authentication_Only(MD5)
Status	Enabled **Disabled**	

Copy this page if you are adding more than six IPSec tunnels.

IPSec Tunnel Settings			
Tunnel Number			
IPSec Enabled	**Yes** No	**Yes** No	**Yes** No
PFS Enabled	**Yes** No	**Yes** No	**Yes** No
Idle Timeout			
Highest Encryption			
Key Type	Text Hexadecimal	Text Hexadecimal	Text Hexadecimal
Preshared Key			
Rekey Timeout			
Rekey Data Count			
Local Endpoint			
Remote Endpoint			
Tunnel Number			
IPSec Enabled	**Yes** No	**Yes** No	**Yes** No
PFS Enabled	**Yes** No	**Yes** No	**Yes** No
Idle Timeout			
Highest Encryption			
Key Type	Text Hexadecimal	Text Hexadecimal	Text Hexadecimal
Preshared Key			
Rekey Timeout			
Rekey Data Count			
Local Endpoint			
Remote Endpoint			

IPSec Local Accessible Networks		
Network Number (L#)	**IP Address**	**IP Address Mask**

IPSec Remote Accessible Networks		
Network Number (R#)	**IP Address**	**IP Address Mask**

Policy Management

QoS Summary parameters				
Status	**Enabled**	Disabled	**Premium DS Code**	
Premium Bandwidth (%)			**Number of Phone Ports**	
Video Class	Premium	Best Effort		

QoS Advanced parameters					
Adapter Name	**IP-LAN1**	**IP-LAN2**	**IP-WAN1**	**IP-WAN2**	**IP-DIALUP**
High Water Mark					
Low Water Mark					

Copy this page if you are adding more than 24 Interface Groups.

QoS Devices — Interface Groups					
Group Name	**Role Combination**				
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP
	IP-LAN1	IP-LAN2	IP-WAN1	IP-WAN2	IP-DIALUP

Copy these pages if you are adding more than 4 QoS IP Filters.

QoS Rules — IP Filters		
	IP Filter _____	**IP Filter** ____
Name		
Destination Address		
Destination Address Mask		
Source Address		
Source Address Mask		
DSCP		
Protocol	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)
Destination L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Source L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Permit	This is a read-only field	This is a read-only field

	IP Filter _____	**IP Filter** ____
Name		
Destination Address		
Destination Address Mask		
Source Address		
Source Address Mask		
DSCP		
Protocol	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)

QoS Rules — IP Filters		
Destination L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Source L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Permit	Yes No	Yes No
	IP Filter _____	IP Filter ____
Name		
Destination Address		
Destination Address Mask		
Source Address		
Source Address Mask		
DSCP		
Protocol	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)
Destination L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Source L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Permit	Yes No	Yes No

QoS Rules — IP Filters		
	IP Filter _____	IP Filter ____
Name		
Destination Address		
Destination Address Mask		
Source Address		
Source Address Mask		
DSCP		
Protocol	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)	**None**__ TCP__ UDP__ ICMP__ IGMP__ RSVP__ IPSec(AH)__ IPSec(ESP)__ PPTP/GRE__ CBT__ EGP__ PUP__ CHAOS__ XNS-IDP__ IS0-TP4__ IDPR__ IPv6__ MOBILE__ ISO-IP__ VINES__ MTP__ PNNI__ PIM__ IPX-in-IP__ VRRP__ L2TP__ FC _____ (0-255)
Destination L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Source L4 Port	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)	**IGNORE**__ FTP__ TELNET__ SMTP__ SNMP__ DNS__ POP__ NNTP__ HTTP _____ (1-65535)
Permit	Yes No	Yes No

QoS Rules — Filter Groups	
Filter Group Name	**Filter Order**

QoS Actions

Action Name	Packet Drop	Update DSCP		Action Name	Packet Drop	Update DSCP
	True False				True False	
	True False				True False	
	True False				True False	

QoS Policies				
Name	**Filter**	**Interface Group**	**Order**	**Action**

Common Open Policy Services (COPS)

COPS Client Servers					
Address	**TCP Port**	**Priority**	**Address**	**TCP Port**	**Priority**

COPS Client Server Retry Data	
Server Retry Count	
Server Retry Interval	

Policy Agent and server

Policy Agent	Dynamic Management
	Enabled Disabled

Policy Server	Longevity
	Never Expire**Expire Immediately** Expire on Timeout

IP Firewall Filters

Copy this page if you are adding IP Firewall filters to more than three interfaces.

Interface	LAN1 WAN1 WAN2 V90-1 (ModemBackup)		
Status	Enabled Disabled	Enabled Disabled	Enabled Disabled
Logging settings			
Logging	Enabled Disabled	Enabled Disabled	Enabled Disabled
Logging Level	1 2 3	1 2 3	1 2 3
Log Viewing Options			
Start Date			
End Date			
Default Rules			
Status	**Disabled - Pass All** Enabled - Pass outgoing and Block incoming except IP phones Enabled - Pass outgoing and Block incoming including IP phones	**Disabled - Pass All** Enabled - Pass outgoing and Block incoming except IP phones Enabled - Pass outgoing and Block incoming including IP phones	**Disabled - Pass All** Enabled - Pass outgoing and Block incoming except IP phones Enabled - Pass outgoing and Block incoming including IP phones
Input Filter Rule Order			
Rule Order (comma-separated IR#s)			
Output Filter Rule Order			
Rule Order (comma-separated use OR#s)			

Copy the next three pages for more Input Filters (there is two per page).

Interface	LAN1 WAN1 WAN2 V90-1 (ModemBackup)	
Firewall Input Filters, Rule Setting		
Rule Name (IR#)		
Stateful	**Yes** No	**Yes** No
Disposition	**Block** Pass	**Block** Pass
Protocol	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP
Source IP Type	Fixed Dynamic	Fixed Dynamic
Source IP		
Source Range Mask		
Source Port Range (#-#)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Destination IP Type	Fixed Dynamic	Fixed Dynamic
Destination IP		
Destination Range Mask		
Destination Port Range (#-#)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Source Routing	Present Absent **Ignore**	Present Absent **Ignore**
IP Options	Present Absent **Ignore**	Present Absent **Ignore**
Quick	**Yes** No	**Yes** No

Interface	LAN1 WAN1 WAN2 V90-1 (ModemBackup)	
Firewall Input Filters, Rule Setting		
Rule Name (IR#)		
Stateful	**Yes** No	**Yes** No
Disposition	**Block** Pass	**Block** Pass
Protocol	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP
Source IP Type	Fixed Dynamic	Fixed Dynamic
Source IP		
Source Range Mask		
Source Port Range (#-#)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Destination IP Type	Fixed Dynamic	Fixed Dynamic
Destination IP		
Destination Range Mask		
Destination Port Range (#-#)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Source Routing	Present Absent **Ignore**	Present Absent **Ignore**
IP Options	Present Absent **Ignore**	Present Absent **Ignore**
Quick	**Yes** No	**Yes** No

Interface	LAN1 WAN1 WAN2 V90-1 (ModemBackup)	
Firewall Input Filters, Rule Setting		
Rule Name (IR#)		
Stateful	**Yes** No	**Yes** No
Disposition	**Block** Pass	**Block** Pass
Protocol	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP
Source IP Type	Fixed Dynamic	Fixed Dynamic
Source IP		
Source Range Mask		
Source Port Range (#-#)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Destination IP Type	Fixed Dynamic	Fixed Dynamic
Destination IP		
Destination Range Mask		
Destination Port Range (#-#)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP __ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Source Routing	Present Absent **Ignore**	Present Absent **Ignore**
IP Options	Present Absent **Ignore**	Present Absent **Ignore**
Quick	**Yes** No	**Yes** No

Copy the next three pages for more than three Output Filters.

Interface	LAN1 WAN1 WAN2 V90-1 (ModemBackup)	
Firewall Output Filters' Rule Setting		
Rule Name (OR#)		
Stateful	**Yes** No	**Yes** No
Disposition	**Block** Pass	**Block** Pass
Protocol	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP
Source IP Type	Fixed Dynamic	Fixed Dynamic
Source IP		
Source Range Mask		
Source Port Range (#-#)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Destination IP Type	Fixed Dynamic	Fixed Dynamic
Destination IP		
Destination Range Mask		
Destination Port Range (#-#)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Source Routing	Present Absent **Ignore**	Present Absent **Ignore**
IP Options	Present Absent **Ignore**	Present Absent **Ignore**
Quick	**Yes** No	**Yes** No

Interface	LAN1 WAN1 WAN2 V90-1 (ModemBackup)	
Firewall Output Filters' Rule Setting		
Rule Name (OR#)		
Stateful	**Yes** No	**Yes** No
Disposition	**Block** Pass	**Block** Pass
Protocol	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP
Source IP Type	Fixed Dynamic	Fixed Dynamic
Source IP		
Source Range Mask		
Source Port Range (#-#)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Destination IP Type	Fixed Dynamic	Fixed Dynamic
Destination IP		
Destination Range Mask		
Destination Port Range (#-#)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Source Routing	Present Absent **Ignore**	Present Absent **Ignore**
IP Options	Present Absent **Ignore**	Present Absent **Ignore**
Quick	**Yes** No	**Yes** No

Interface	LAN1 WAN1 WAN2 V90-1 (ModemBackup)	
Firewall Output Filters' Rule Setting		
Rule Name (OR#)		
Stateful	**Yes** No	**Yes** No
Disposition	**Block** Pass	**Block** Pass
Protocol	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP	**IP**__ TCP__ UDP__ TCP/UDP__ ICMP__ OSPF__ PPTP__ IPSEC_AH__ IPSEC_ESP
Source IP Type	Fixed Dynamic	Fixed Dynamic
Source IP		
Source Range Mask		
Source Port Range (#-#)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Destination IP Type	Fixed Dynamic	Fixed Dynamic
Destination IP		
Destination Range Mask		
Destination Port Range (#-#)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)	**ALL**__ FTP__ Telnet__ SMTP__ SNMP__ DNS__ DHCP__ TFTP__ Gopher__ Finger__ HTTP__ H.323__ POP__ NNTP__ NetBios__ RPC__ SUNNFS__ DCOM__ _____ (1-65535)
Source Routing	Present Absent **Ignore**	Present Absent **Ignore**
IP Options	Present Absent **Ignore**	Present Absent **Ignore**
Quick	**Yes** No	**Yes** No

Return to Programming Record forms

Telephony Settings

NORTEL NETWORKS™

Contents: Telephony settings

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System DNs

After you set up your system telephony LAN, WAN, and MSC settings, you are ready to configure the telephony parameters for your system. There are some settings that are general to all (or most) telephony services. Fill out these pages before you configure specific device information.

- General Telephony Settings on page 1
- System Settings, Lines and DNs on page 3
- Target Lines on page 6
- System Access Codes on page 8
- Remote Access Packages on page 8
- External Access (COS Passwords) on page 9

General Telephony Settings

The telephony portion of your system has settings that apply to all the equipment and features. Use this table to note these settings.

DN lengths	3 4 5 6 7		**Received # length**	2 3 4 5 6 7
Network Dialing Plan	UDP CDP None		**ONN Blocking**	Tone Pulse BRI
Voice message center numbers	**External #**		**Message Wait Indication String**	**Message Wait Cancellation String**
Center 1				
Center 2				
Center 3				
Center 4				
Center 5				

Direct Dial sets			
Set #	**Type**	**Internal #/External #**	**Facility (external line)**
1	**None** Internal External		**Use line:** Pool: Use Prime line: Use Routing table:
2	**None** Internal External		**Use line:** Pool: Use Prime line: Use Routing table:
3	**None** Internal External		**Use line:** Pool: Use Prime line: Use Routing table:
4	**None** Internal External		**Use line:** Pool: Use Prime line: Use Routing table:
5	**None** Internal External		**Use line:** Pool: Use Prime line: Use Routing table:

CAP assignment				
CAP #	**CAP set**		**CAP #**	**CAP set**
1			**7**	
2			**8**	
3			**9**	
4			**10**	
5			**11**	
6			**12**	

Timers				
Camp Timeout			**Transfer Callback Timeout**	
Park Timeout			**Host Delay**	
Page Timeout			**Link Time**	

Feature settings				
Business Name			**Alarm set**	None DN: DN <control set>
Background music	Y or N		**Set relocation**	Y or N
On hold	Tones, Music, Silence		**Message reply enhancement**	Y or N
Receiver volume	Use sys volume Use set volume		**Answer key**	Basic Enhanced Extended
Park mode	Lowest or Cycle		**Force auto/spd dial over ic/conf**	Y or N
Delayed Ring Transfer	1 2 3 4 6 10		**Conference Tone**	Y or N
Held line reminder	Off 30 60 90 120 150 180 sec		**Network Callback Timer**	
Directed pickup	Y or N			
Call log space				
Space per log			**# of sets with logs**	

SWCA controls	
Associate SWCA key to call	Manually - while parked Manually - life of call Automatically - life of call
Include I/C calls when auto associating	**N** Y
Invoke SWCA parking by HOLD	**N** Y
Include I/C calls when invoked by HOLD	**N** Y

System Settings, Lines and DNs

Make a copy for each trunk line, or type of trunk line you are installing.

Fill out a copy of this page for all the lines on your system, including VoIP trunks. Note that some of the options do not appear for some types of lines.

Line configuration

VoIP Lines: 001-060 (requires keycode to activate)
Physical Lines: 061-233
Target Lines: 241-492

Line Name			**Voice Message Center**	1 2 3 4 5 None	
Control set	None Default DN DN _____		**If this is a target line, what DN is it mapped to?**		
Use remote package (except target lines)			***Received Number/ Public # (target lines only)**		
			***Note: If your system is part of a private network, the target line received number must match the DN assigned to the telephone.**		
Trunk/Line Data (options vary, depending on type of trunk)					
Trunk Type:					***DNs assigned with this line**
Line Type		**CLID set**		**Use auxiliary ringer**		
Dial mode		**Auto privacy**		**Full autohold**		
Received #		**Trunk mode**		**Loss package**		
If busy		**Answer mode**		**Signalling**		
Prime set		**Answer with DISA**		**ANI Number**		
Distinct ring		**Link at CO**		**DNIS Number**		

Line Restrictions			**Remote Restrictions**		
Normal	03		**Normal**	04	
Schedule 1 (Night)	21		**Schedule 1 (Night)**	31	
Schedule 2 (Evening)	22		**Schedule 2 (Evening)**	32	
Schedule 3 (Lunch)	23		**Schedule 3 (Lunch)**	33	
Schedule 4	00		**Schedule 4**	00	
Schedule 5	00		**Schedule 5**	00	
Schedule 6	00		**Schedule 6**	00	

*Note: You can assign a line for up to 93 appearances.

Line pools and Line Pool codes

Line Pool	Type of line	Access Codes Destination codes		Type of line	Access Codes Destination codes
A				I	
B				J	
C				K	
D				L	
E				M	
F				N	
G				O	
H					

Note: PRI lines cannot be assigned access codes. You must define a route for the PRI lines, and then assign a destination code.

VoIP: VoIP lines can be assigned as individual lines using target lines, or they can be assigned to a line pool. Ensure that you only assign VoIP lines to any VoIP pool you create.

PRI line pool settings

CbC Limits			
PRI pool	**Type**	**Incoming lines**	**Outgoing lines**
PRI-A	Public Tie Foreign Exchange OUTWATS INWATS International INWATS Switched Digital Nine hundred Private	Minimum incoming: _____ Maximum incoming: _____	Minimum outgoing: _____ Maximum outgoing: _____
PRI-B	Public Tie Foreign Exchange OUTWATS INWATS International INWATS Switched Digital Nine hundred Private	Minimum incoming: _____ Maximum incoming: _____	Minimum outgoing: _____ Maximum outgoing: _____
PRI-C	Public Tie Foreign Exchange OUTWATS INWATS International INWATS Switched Digital Nine hundred Private	Minimum incoming: _____ Maximum incoming: _____	Minimum outgoing: _____ Maximum outgoing: _____
PRI-D	Public Tie Foreign Exchange OUTWATS INWATS International INWATS Switched Digital Nine hundred Private	Minimum incoming: _____ Maximum incoming: _____	Minimum outgoing: _____ Maximum outgoing: _____
PRI-E	Public Tie Foreign Exchange OUTWATS INWATS International INWATS Switched Digital Nine hundred Private	Minimum incoming: _____ Maximum incoming: _____	Minimum outgoing: _____ Maximum outgoing: _____
PRI-F	Public Tie Foreign Exchange OUTWATS INWATS International INWATS Switched Digital Nine hundred Private	Minimum incoming: _____ Maximum incoming: _____	Minimum outgoing: _____ Maximum outgoing: _____

Loops attributes

Note: The loop type dictates which fields appear.

Loop #				
Protocol			**ONN blocking state**	
Clock source			**Sampling (S loop only)**	
Overlap receiving			**SPID**	

Loop #				
Protocol			**ONN blocking state**	
Clock source			**Sampling (S loop only)**	
Overlap receiving			**SPID**	

Loop #				
Protocol			**ONN blocking state**	
Clock source			**Sampling (S loop only)**	
Overlap receiving			**SPID**	

Loop #				
Protocol			**ONN blocking state**	
Clock source			**Sampling (S loop only)**	
Overlap receiving			**SPID**	

Target Lines

Copy these pages if you are using more than 120 target lines.

If your system is set to a DID telephony profile, all DNS are automatically mapped to target lines. Note: Line programming for target line programming is covered on the Lines form.

Target Lines (241-492)

Target line no. (3 digits)	**Telephone DN assigned to target line**	**Prime set**	**Control set**

Target Lines (241-492) (continued)

Target line no. (3 digits)	**Telephone DN assigned to target line**	**Prime set**	**Control set**

System Access Codes

Park prefix	0 1 2 3 4 5 6 7 8 9 None
Extrnl code	0 1 2 3 4 5 6 7 8 9 None
Direct-dial digit	0 1 2 3 4 5 6 7 8 9 None
Auto DN	None Received #_____
DISA DN	None Received #_____
Private Access Code	0 1 2 3 4 5 6 7 8 9 None

Carrier	**1**	**2**	**3**	**4**	**5**
Carrier Code					
Code prefix	0 1 2 3 4 5 6 7 8 9 None	0 1 2 3 4 5 6 7 8 9 None	0 1 2 3 4 5 6 7 8 9 None	0 1 2 3 4 5 6 7 8 9 None	0 1 2 3 45 6 7 8 9 None
ID length:					

Line Pool codes, refer to Line pools and Line Pool codes on page 4.

Remote Access Packages

Pkg. #	**Remote page?**	**Line pool access/Access code**																			
		A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**	**L**	**M**	**N**	**O**	**PRI A**	**PRI B**	**PRI C**	**PRI D**	**PRI E**	**PRI F**
1	Y N	9																				
2	Y N																					
3	Y N																					
4	Y N																					
5	Y N																					
6	Y N																					
7	Y N																					
8	Y N																					
9	Y N																					
10	Y N																					
11	Y N																					
12	Y N																					
13	Y N																					
14	Y N																					
15	Y N																					

External Access (COS Passwords)

Pswd # (00-99)	**Assigned to** (owner of password)	**Password**	**User filter**	**Line filter**	**Remote pkg**
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #
			None Filter #	None Filter #	None Filter #

Call Routing

Photocopy this page if you require more than 32 routes.

Route #	External # (dialout)	Use Pool	DN Type	Description
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
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			Public Private	
			Public Private	
			Public Private	
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			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	
			Public Private	

Destination Codes

Photocopy the this page to add additional destination codes. Each page contains two destination codes.

Destination code: (max. 12 digits)	**Schedule**	**Use route**		**Dial string**	**Absorb length**
	Normal		Rte: _____		All 0 _____
	Night	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Evening	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Lunch	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Sched 5	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Sched 5	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Sched 6	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
Destination code:	**Schedule**	**Use route**		**Dial string**	**Absorb length**
	Normal		Rte: _____		All 0 _____
	Night	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Evening	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Lunch	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Sched 4	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Sched 5	1 2 3	**None** Rte:_____ _____ _____		All 0 _____
	Sched 6	1 2 3	**None** Rte:_____ _____ _____		All 0 _____

Configuring individual telephones

Each telephone you install on your system requires a DN record. This record defines the telephone to the system and determines which features will be available to the user. The tables in this section allow you to record this information.

Note: Some telephones require other configuration information.

- Companion handsets access a specific range of ISDN-based DN records.
- DECT has a special media bay module that requires pre-programming. You must configure the DN records before you subscribe any handset to the system.
- T7406 wireless handsets must register to the base stations and choose a base station port. This port is connected to the Business Communications Manager and represents a specific DN available to the DSM the base station is attached to. You can configure the DN record before or after this procedure.
- Nortel i2002 and i2004 and the Nortel Networks i2050 Soft Phone must be registered to the system from the telephone location. These telephones can be set to auto-generate a DN record, or you can choose which range of DNs, within the digital range, that you want to use. If you choose to assign a specific range, you can configure the DN records before the telephones are registered to the system.
- NetVision telephones are initially configured through the Symbol NetVision Phone Administrator (NVPA) application. The data is then uploaded to the telephone. At that point, a specific DN record is assigned to the handset. You can also configure the DN record before you perform this procedure.

Using Wizards to add users

Most of these fields can be assigned to individual or groups of telephones using the DN Record Templates Wizard and Add Users Wizard. It helps to fill out a record before using the wizards so have something to refer to when you create a template or user record. Refer to the *Programming Operations Guide* for details about using the wizards.

Copying set programming

The Copy command is found under **Configuration** when you click on a DN record heading.

You can use this command to copy only the system data, or you can use this command to copy system data and user data. Be aware, that some data is not copied. If data relies on the model of telephone, as is the case with button programming, for example, it will not get copied if the telephone is a different model. As well, the Copy command does not copy any system data that is meant to be unique to each telephone.

In the following forms, headings with this symbol ◦ beside them are copied when you choose to copy system and user data.

Telephone Record

Photocopy the pages in this section before using.

Fill out this form for all telephones that you install.

IP telephones and NetVision telephones require preconfiguration beyond this system record. Refer to Nortel IP Terminals configurations on page 28 and Netvision handset programming (H.323 Terminals) on page 30.

<table>
<tr><td colspan="5">General settings</td></tr>
<tr><td>DN
PSTN #
Port No. _____
(analog/digital)</td><td colspan="4">Name of user
Location</td></tr>
<tr><td>Type of telephone (Model):</td><td colspan="4">Digital ☐ M7100(N)/T7100 ☐ M7208(N)/T7208
☐ M7310(N)/T7316 (also includes T7406) ☐ M7324(N)
IP ☐ i2004/i2050 ☐ i2002 ☐ IPWls (Symbol NetVision)
☐ ISDN or DECT ☐ Companion ☐ Other _____
Intl set ☐ M7000/T7000</td></tr>
<tr><td>Accessories</td><td>Analog only
☐ BLF
☐ ATA2</td><td>M7324 telephones
☐ CAP</td><td>IP Telephone configurations:
Refer to Nortel IP Terminals configurations on page 28.</td><td>NetVision telephone configuration: Refer to Netvision handset programming (H.323 Terminals) on page 30.</td></tr>
<tr><td colspan="5">Comments:
Is this telephone part of a range of telephones with the same features? Range:
Note any unique features about this telephone or the user.</td></tr>
<tr><td>Control set (default is start DN)</td><td></td><td></td><td>Call log passwords</td><td></td></tr>
<tr><td>°Prime Line</td><td colspan="2">None I/C Line # __ Pool ____</td><td>°Intercom Keys</td><td>0 1 2 3 4 5 6 7 8</td></tr>
<tr><td>OLI#</td><td colspan="2">None # _____</td><td colspan="2">Note: M7100(N)/T7100 and M7000/T7000 sets do not have intercom or line keys.</td></tr>
<tr><td rowspan="2">°Answer DNs
(DNs of sets to be answered.)</td><td colspan="2" rowspan="2">Appear&Ring Appear only
Ring only blank = Unassigned</td><td>°First display</td><td>Name Number Line</td></tr>
<tr><td>Auto Called ID</td><td>Y N</td></tr>
<tr><td colspan="5"></td></tr>
<tr><td colspan="5">NEXT STEP 1: Assign Lines and Line Pools, including Target Lines (refer to Assigning Trunk/Line Data on page 14)</td></tr>
<tr><td colspan="5">NEXT STEP 2: Assign Set and Line/Set Restrictions (refer to Assigning Restrictions on page 15)</td></tr>
<tr><td colspan="5">NEXT STEP 3: Assign Capabilities and User Preferences (refer to Capabilities and User Preferences on page 16 and Button Programming on page 18)
This does not apply to ISDN devices, DECT or Companion portable systems.
IP telephones configuration tables:
• Nortel IP Terminals configurations on page 28
• Netvision handset programming (H.323 Terminals) on page 30</td></tr>
</table>

Assigning Trunk/Line Data

DN	Name of user or template													
Line assignment											Line pool access	Answer DNs	Line pool code or destination code	
Line #	Type of line P = Physical line T = Target line V = Voice over IP line			Appearance Type RO = Ring Only AR = Appr&Ring AO = Appr Only			Call log set		Vmsg set					
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				
	P	T	V	RO	AR	AO	Y	N	Y	N				

Note: You assign a line for a maximum of 93 appearances.

Assigning Restrictions

DN		Name of user			
°Set restrictions					
Schedule	Use Filter	Schedule	Use Filter	°Set Lock	Y N
Normal	02	Sched 4	00	°Allow Last #	
Night	11	Sched 5	00	°Allow Saved #	
Evening	12	Sched 6	00	°Allow link	
Lunch	13				

°Line/set restrictions

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Line #	
Schedule	Use filter
Normal	
Night	
Evening	
Lunch	
Sched 4	
Sched 5	
Sched 6	

Capabilities and User Preferences

There are two forms in this section.

- Use form 1 to define the Capabilities for ISDN and DECT equipment.
- Use form 2 (2 pages) to define the Capabilities and User Preferences for analog, digital, and IP telephones.

Form 1

ISDN and DECT Capabilities			
°Pickup grp	1 2 3 4 5 6 7 8 9 None	**°Aux. ringer**	Y N
°Paging	Y N	**°Allow redirect**	Y N
°D-Dial	Set1 Set _____ None		

Form 2 (2 pages)

Capabilities and User Preferences (Analog, Digital, IP telephones)			
DN		**°Language**	
Capabilities screen			
°DND on Busy	Y N	**Auto Hold**	Y N
°Handsfree	Auto Standard None	**°Aux. ringer**	Y N
°HF answerback	Y N	**°Allow redirect**	Y N
°Pickup grp	1 2 3 4 5 6 7 8 9 None	**°Redirect ring**	Y N
°Page zone	1 2 3 4 5 6 None	**Receive short tones**	Y N
°Paging	Y N	**SM supervisor**	Y N
°Direct-Dial	Set1 Set ____ None	**ATA settings**	
°Priority call	Y N	**°ATA answer timer**	3 5 7 10
Call forward		**ATA use**	On site Off site
°Fwd no answer	None to:	**°Msg indicate**	None Tone Lamp
Fwd delay no answer	2 3 4 6 10	**ATA dvc**	Modem Telephon
°Fwd on busy	None to:	**Intrusion**	
°Call log set	Vmsg set	**Protect lvl**	None Low Med High
°Dialing opt'ns	Standard dial Pre-dial	**°Ring type**	1 2 3 4
Contrast	1 2 3 4 5 6 7 8 9	**°Call log opt'ns**	Log all calls... No autologging... No one answered... Unanswered by me...
°Hotline			
None	Internal # Direct Dial set:	External #	Prime Pool ___ Use Routing Table

Photocopy, as needed.

Capabilities and User Preferences (Continued) **(Analog, Digital, IP telephones)**								
User speed dials settings								
Spd# (71-94)/External number	**Facility** **PL = Prime line** **PC = Pool code** **L = Line #** **RT = Use Routing Table**				**Spd# (71-94)/External number**	**Facility** **PL = Prime line** **PC = Pool code** **L = Line #** **RT = Use Routing Table**			
71/	**PL**	**PC**	L	**RT**	83/	**PL**	**PC**	L	**RT**
72/	**PL**	**PC**	L	**RT**	84/	**PL**	**PC**	L	**RT**
73/	**PL**	**PC**	L	**RT**	85/	**PL**	**PC**	L	**RT**
74/	**PL**	**PC**	L	**RT**	86/	**PL**	**PC**	L	**RT**
75/	**PL**	**PC**	L	**RT**	87/	**PL**	**PC**	L	**RT**
76/	**PL**	**PC**	L	**RT**	88/	**PL**	**PC**	L	**RT**
77/	**PL**	**PC**	L	**RT**	89/	**PL**	**PC**	L	**RT**
78/	**PL**	**PC**	L	**RT**	90/	**PL**	**PC**	L	**RT**
79/	**PL**	**PC**	L	**RT**	91/	**PL**	**PC**	L	**RT**
80/	**PL**	**PC**	L	**RT**	92/	**PL**	**PC**	L	**RT**
81/	**PL**	**PC**	L	**RT**	93/	**PL**	**PC**	L	**RT**
82/	**PL**	**PC**	L	**RT**	94/	**PL**	**PC**	L	**RT**

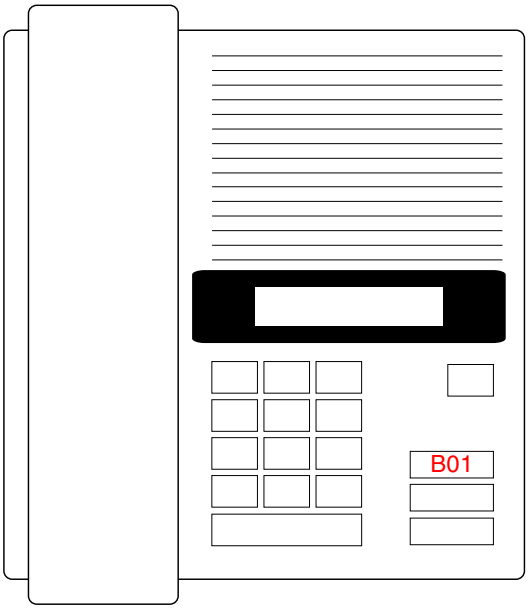
Button Programming

Fill out the form that is appropriate for the model of digital telephone you are installing:

- Model M7100(N)/T7100 Button Programming on page 18
- Model M7208(N)/T7208 Button Programming on page 19
- Model M7310(N) Button Programming on page 20
- Model T7316 Button Programming on page 22
- Model M7324 Button Programming and CAP Assignments on page 24
- Model T7406 Button Programming on page 27
- i2004 and i2002 Button Programming on page 29
- NetVision SWCA key Button Programming on page 31

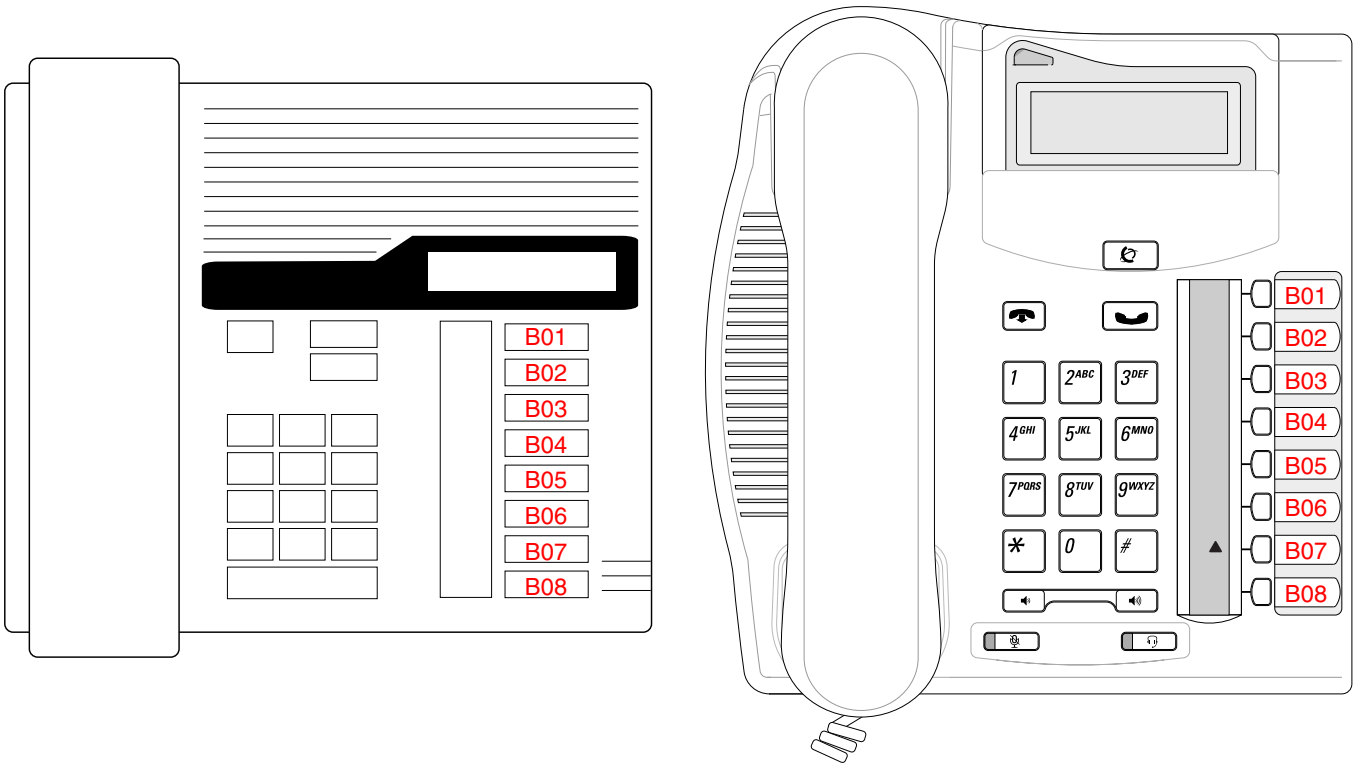
Line assignment: You can only assign a maximum of 93 appearances for any line.

Model M7100(N)/T7100 Button Programming



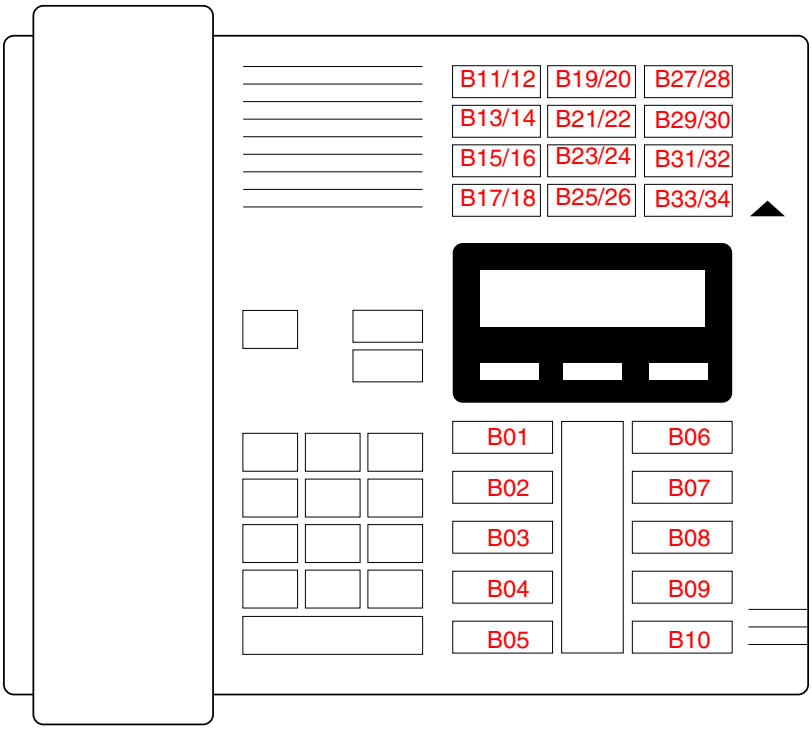
Note: This button is automatically set to Auto Redial, unless you choose to change it.				
Button number	**Blank**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
B01			DN	

Model M7208(N)/T7208 Button Programming



Note: The Unified Manager only displays model M7208.				
Button number	**Line #/ Intercom/ Answer DN**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
B01			DN	
B02			DN	
B03			DN	
B04			DN	
B05			DN	
B06			DN	
B07			DN	
B08			DN	

Model M7310(N) Button Programming



M7310N button configuration

Line buttons

B01
B02
B03
B04
B05
B06
B07
B08
B09
B10

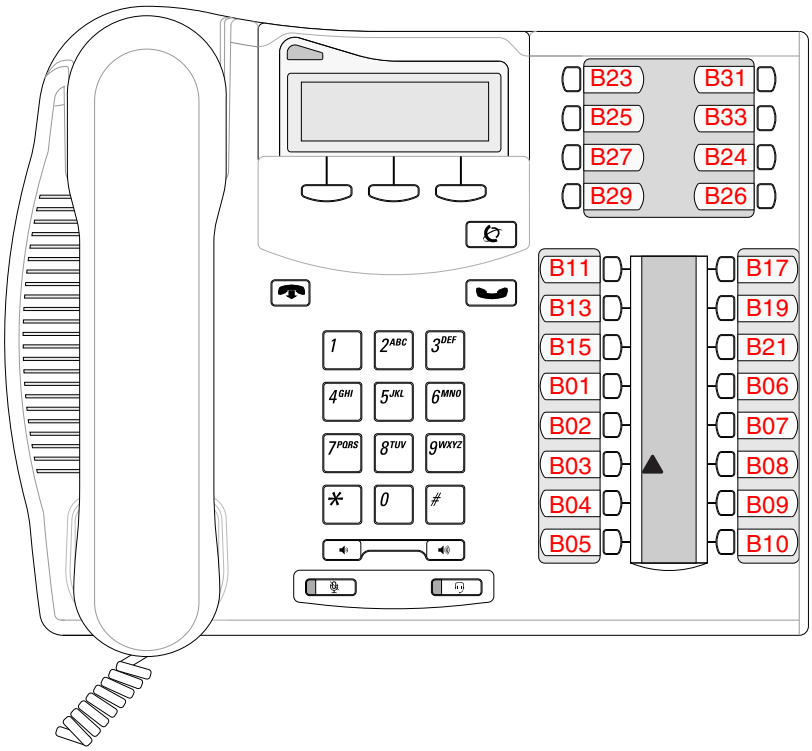
Two-level memory buttons

B11/12 B23/24
B13/14 B25/26
B15/16 B27/28
B17/18 B29/30
B19/20 B31/32
B21/22 B33/34

Button number	Line #/ Intercom/ Answer DN	EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table	Internal Autodial	Feature
B01			DN	
B02			DN	
B03			DN	
B04			DN	
B05			DN	
B06			DN	
B07			DN	
B08			DN	
B09			DN	
B10			DN	

Button number	EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table	Internal Autodial	Feature
B11	External #: Use Line: Use Pool: Use Prime Line Use Routing Table	DN	
B12 (shift)		DN	
B13		DN	
B14 (shift)		DN	
B15		DN	
B16 (shift)		DN	
B17		DN	
B18 (shift)		DN	
B19		DN	
B20 (shift)		DN	
B21		DN	
B22 (shift)		DN	
B23		DN	
B24 (shift)		DN	
B25		DN	
B26 (shift)		DN	
B27		DN	
B28 (shift)		DN	
B29		DN	
B30 (shift)		DN	
B31		DN	
B32 (shift)		DN	
B33		DN	
B34 (shift)		DN	

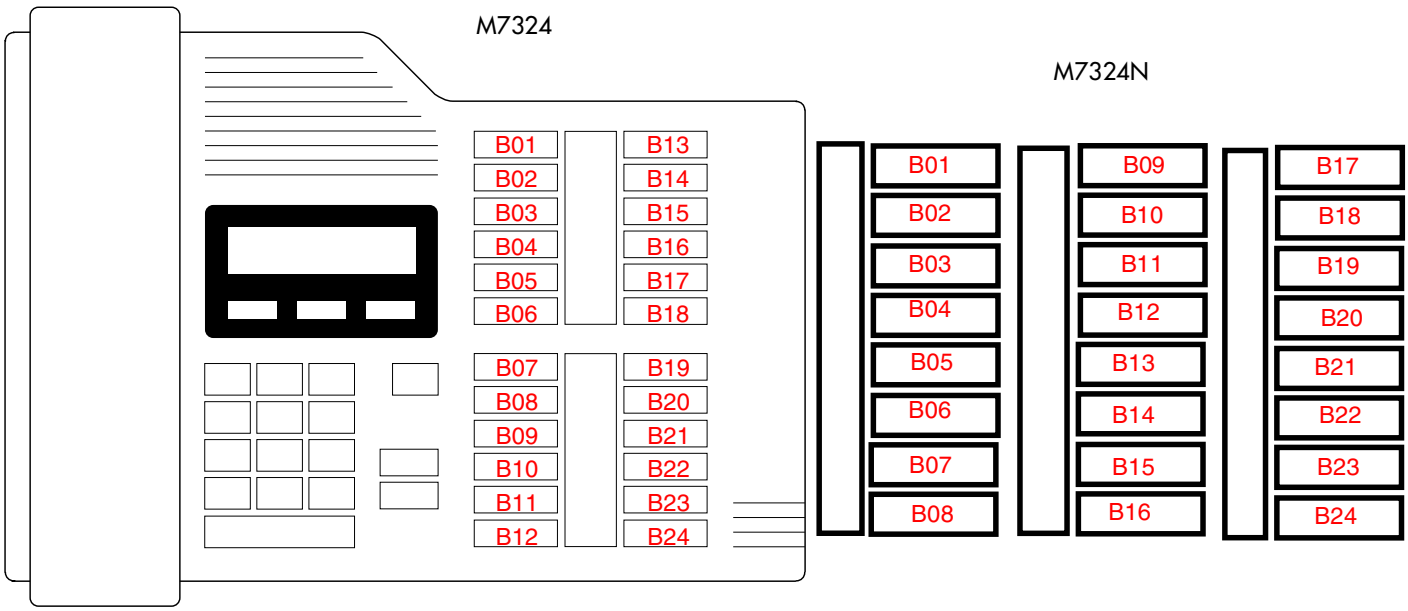
Model T7316 Button Programming



Buttons with indicators				
Button number	**Line #/ Intercom/ Answer DN**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
B01			DN	
B02			DN	
B03			DN	
B04			DN	
B05			DN	
B06			DN	
B07			DN	
B08			DN	
B09			DN	
B10			DN	

Memory buttons			
Button number	**External Autodial**	**Internal Autodial**	**Feature**
B11		DN	
B13		DN	
B15		DN	
B17		DN	
B19		DN	
B23		DN	
B24		DN	
B25		DN	
B26		DN	
B27		DN	
B29		DN	
B31		DN	
B33		DN	

Model M7324 Button Programming and CAP Assignments

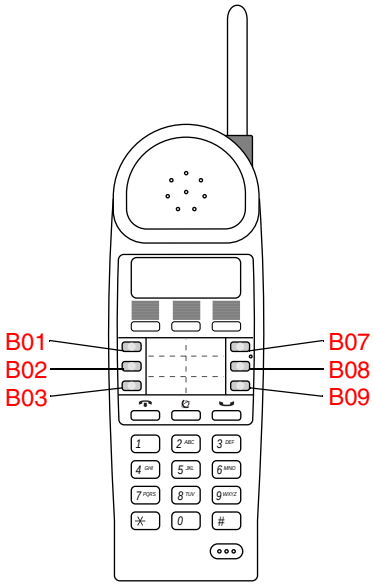


CAP modules: Make copies of this form for each CAP configuration you are installing				
Button number	**Line #/ Intercom/ Answer DN**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
T7324 programming				
B01			DN	
B02			DN	
B03			DN	
B04			DN	
B05			DN	
B06			DN	
B07			DN	
B08			DN	
B09			DN	
B10			DN	
B11			DN	
B12			DN	
B13			DN	
B14			DN	
B15			DN	
B16			DN	
B17			DN	

CAP modules: Make copies of this form for each CAP configuration you are installing				
Button number	**Line #/ Intercom/ Answer DN**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
B18			DN	
B19			DN	
B20			DN	
B21			DN	
B22			DN	
B23			DN	
B24			DN	
CAP module programming				
B01			DN	
B02			DN	
B03			DN	
B04			DN	
B05			DN	
B06			DN	
B07			DN	
B08			DN	
B09			DN	
B10			DN	
B11			DN	
B12			DN	
B13			DN	
B14			DN	
B15			DN	
B16			DN	
B17			DN	
B18			DN	
B19			DN	
B20			DN	
B21			DN	
B22			DN	
B23			DN	
B24			DN	

CAP modules: Make copies of this form for each CAP configuration you are installing				
Button number	**Line #/ Intercom/ Answer DN**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
B25			DN	
B26			DN	
B27			DN	
B28			DN	
B29			DN	
B30			DN	
B31			DN	
B32			DN	
B33			DN	
B34			DN	
B35			DN	
B36			DN	
B37			DN	
B38			DN	
B39			DN	
B40			DN	
B41			DN	
B42			DN	
B43			DN	
B44			DN	
B45			DN	
B46			DN	
B47			DN	
B48			DN	

Model T7406 Button Programming



Unified Manager DN records use Model M7100 for this telephone.				
Button number	**Line #/ Intercom/ Answer DN**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
B01			DN	
B02			DN	
B03			DN	
B07			DN	
B08			DN	
B09			DN	

Nortel IP Terminals configurations

Photocopy this page for each IP telephone configuration.

Fill out the following form for each i2002, i2004 and i2050 telephone on your system.

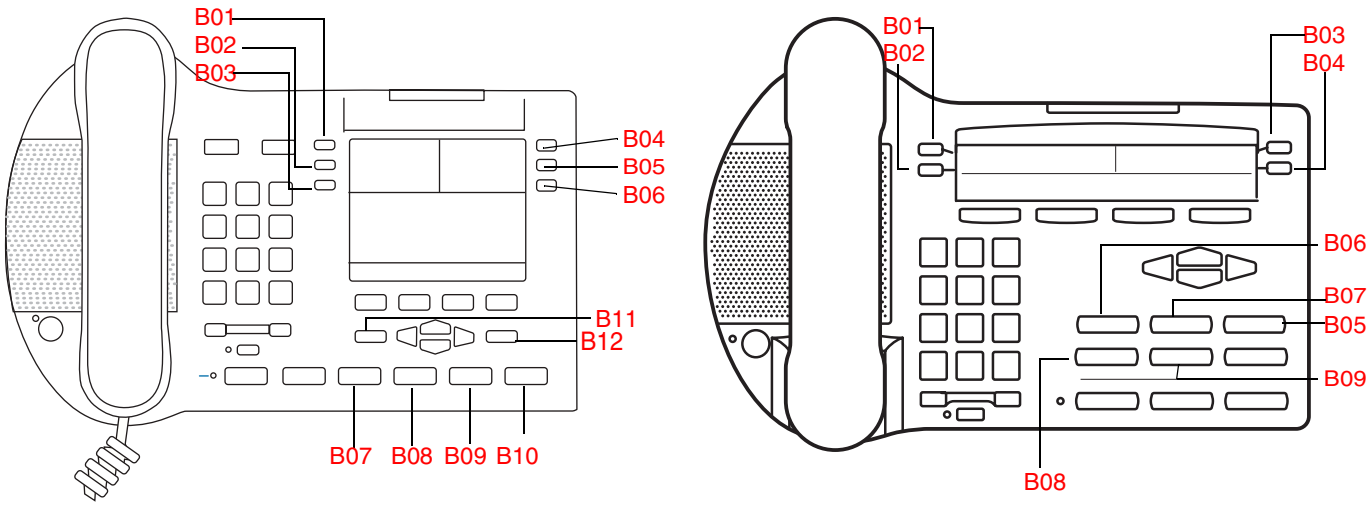
Nortel IP Terminals (i2002, i2004, i2050)				
User Name			**Type of IP telephone**	**i2002, i2004, i2050**
Location			**DN auto assigned DN**	Y N
Password:			**Display Name or Logo**	
DHCP	ON OFF	**NOTE: If DHCP is on, the rest of these settings are not required.**		
IP address of telephone			**Default Gateway**	
Netmask			**VLAN ID**	
	S1	**S2**		
Published IP address				
Port	7000	7000		
Action	1	1		
Retry count	255	255		
IP				

WARNING: Ensure that the system does not assign any DNs to IP telephones that have already been assigned to CallPilot applications, such as CDN. Check under System DNs/Active Application DNs and check your CallPilot Programming Record.

Nortel IP Terminals (i2002, i2004, i2050)				
User Name			**Type of IP telephone**	**i2002, i2004, i2050**
Location			**DN auto assigned DN**	Y N
Password:			**Display Name or Logo**	
DHCP	ON OFF	**NOTE: If DHCP is on, the rest of these settings are not required.**		
IP address of telephone			**Default Gateway**	
Netmask			**VLAN ID**	
	S1	**S2**		
Published IP address				
Port	7000	7000		
Action	1	1		
Retry count	255	255		
IP				

i2004 and i2002 Button Programming

Photocopy as required.



System DNs/Active Set DNS/User Preferences/Button Programming (i2004 has 12 programmable buttons; i2002 has nine programmable buttons)				
Button number	**Line #/ Intercom/ Answer DN**	**EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table**	**Internal Autodial**	**Feature**
B01			DN	
B02			DN	
B03			DN	
B04			DN	
B05			DN	
B06			DN	
B07			DN	
B08			DN	
B09			DN	
B10			DN	
B11			DN	
B12			DN	

Netvision handset programming (H.323 Terminals)

Photocopy as required.

Enter the parameters for all NetVision telephones that you configured to your system.

Access Point programming			
DN:	**User name**		
Type of NetVision telephone	Non-data Data	**Configuration application used**	NVPA
Destination Gateway IP address	(Public IP address of the Business Communications Manager)	**Handset IP address**	
DN:	**User name**		
Type of NetVision telephone	Non-data Data	**Configuration application used**	NVPA
Destination Gateway IP address	(Public IP address of the Business Communications Manager)	**Handset IP address**	
DN:	**User name**		
Type of NetVision telephone	Non-data Data	**Configuration application used**	NVPA
Destination Gateway IP address	(Public IP address of the Business Communications Manager)	**Handset IP address**	
DN:	**User name**		
Type of NetVision telephone	Non-data Data	**Configuration application used**	NVPA
Destination Gateway IP address	(Public IP address of the Business Communications Manager)	**Handset IP address**	
DN	**User name**		
Type of NetVision telephone	Non-data Data	**Configuration application used**	NVPA
Destination Gateway IP address	(Public IP address of the Business Communications Manager)	**Handset IP address**	

NetVision SWCA key Button Programming

Photocopy as required.

To make SWCA key positions available on a NetVision telephone, you need to assign specific SWCA codes to the button programming record for that telephone. The telephone does not have physical buttons, but once the SWCA keys are activated, the user can use the SWCA commands to park calls that can then be shared with other telephones. Refer to the Telephone Feature Programming Guide for details about setting up SWCA keys for call groups.

Handset Name/IEEE ID:					
Button #	**Feature value**	**Available SWCA key assignments**			
B01		Find Available SWCA key	**FEATURE** *520		
		Find oldest parked call	**FEATURE** *537		
		Find newest parked call	**FEATURE** *538		
B02		SWCA key #1	**FEATURE** *521	SWCA key #9	**FEATURE** *529
B03		SWCA key #2	**FEATURE** *522	SWCA key #10	**FEATURE** *530
B04		SWCA key #3	**FEATURE** *523	SWCA key #11	**FEATURE** *531
B05		SWCA key #4	**FEATURE** *524	SWCA key #12	**FEATURE** *532
B06		SWCA key #5	**FEATURE** *525	SWCA key #13	**FEATURE** *533
B07		SWCA key #6	**FEATURE** *526	SWCA key #14	**FEATURE** *534
B08		SWCA key #7	**FEATURE** *527	SWCA key #15	**FEATURE** *535
B09	Default to Intercom	SWCA key #8	**FEATURE** *528	SWCA key #16	**FEATURE** *536
B010	Default to Intercom				

Handset Name/IEEE ID:					
Button #	**Feature value**	**Available SWCA key assignments**			
B01		Find Available SWCA key	**FEATURE** *520		
		Find oldest parked call	**FEATURE** *537		
		Find newest parked call	**FEATURE** *538		
B02		SWCA key #1	**FEATURE** *521	SWCA key #9	**FEATURE** *529
B03		SWCA key #2	**FEATURE** *522	SWCA key #10	**FEATURE** *530
B04		SWCA key #3	**FEATURE** *523	SWCA key #11	**FEATURE** *531
B05		SWCA key #4	**FEATURE** *524	SWCA key #12	**FEATURE** *532
B06		SWCA key #5	**FEATURE** *525	SWCA key #13	**FEATURE** *533
B07		SWCA key #6	**FEATURE** *526	SWCA key #14	**FEATURE** *534
B08		SWCA key #7	**FEATURE** *527	SWCA key #15	**FEATURE** *535
B09	Default to Intercom	SWCA key #8	**FEATURE** *528	SWCA key #16	**FEATURE** *536
B010	Default to Intercom				

System Speed Dial Settings

You can choose a set of speed dial settings that will apply to all telephones on the system. However, these settings are overridden by any user speed dial settings later by individual users.

Spd# (01-70)/External #	EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table	Display digits	Bypass Restrictions	Memory button #
1	EA E# PL PC L RT	Y N	Y N	
2	EA E# PL PC L RT	Y N	Y N	
3	EA E# PL PC L RT	Y N	Y N	
4	EA E# PL PC L RT	Y N	Y N	
5	EA E# PL PC L RT	Y N	Y N	
6	EA E# PL PC L RT	Y N	Y N	
7	EA E# PL PC L RT	Y N	Y N	
8	EA E# PL PC L RT	Y N	Y N	
9	EA E# PL PC L RT	Y N	Y N	
10	EA E# PL PC L RT	Y N	Y N	
11	EA E# PL PC L RT	Y N	Y N	
12	EA E# PL PC L RT	Y N	Y N	
13	EA E# PL PC L RT	Y N	Y N	
14	EA E# PL PC L RT	Y N	Y N	
15	EA E# PL PC L RT	Y N	Y N	
16	EA E# PL PC L RT	Y N	Y N	
17	EA E# PL PC L RT	Y N	Y N	
18	EA E# PL PC L RT	Y N	Y N	
19	EA E# PL PC L RT	Y N	Y N	
20	EA E# PL PC L RT	Y N	Y N	
21	EA E# PL PC L RT	Y N	Y N	
22	EA E# PL PC L RT	Y N	Y N	
23	EA E# PL PC L RT	Y N	Y N	
24	EA E# PL PC L RT	Y N	Y N	
25	EA E# PL PC L RT	Y N	Y N	
26	EA E# PL PC L RT	Y N	Y N	
27	EA E# PL PC L RT	Y N	Y N	
28	EA E# PL PC L RT	Y N	Y N	
29	EA E# PL PC L RT	Y N	Y N	

Spd# (01-70)/External #	EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table	Display digits	Bypass Restrictions	Memory button #
30	EA E# PL PC L RT	Y N	Y N	
31	EA E# PL PC L RT	Y N	Y N	
32	EA E# PL PC L RT	Y N	Y N	
33	EA E# PL PC L RT	Y N	Y N	
34	EA E# PL PC L RT	Y N	Y N	
35	EA E# PL PC L RT	Y N	Y N	
36	EA E# PL PC L RT	Y N	Y N	
37	EA E# PL PC L RT	Y N	Y N	
38	EA E# PL PC L RT	Y N	Y N	
39	EA E# PL PC L RT	Y N	Y N	
40	EA E# PL PC L RT	Y N	Y N	
41	EA E# PL PC L RT	Y N	Y N	
42	EA E# PL PC L RT	Y N	Y N	
43	EA E# PL PC L RT	Y N	Y N	
44	EA E# PL PC L RT	Y N	Y N	
45	EA E# PL PC L RT	Y N	Y N	
46	EA E# PL PC L RT	Y N	Y N	
47	EA E# PL PC L RT	Y N	Y N	
48	EA E# PL PC L RT	Y N	Y N	
49	EA E# PL PC L RT	Y N	Y N	
50	EA E# PL PC L RT	Y N	Y N	
51	EA E# PL PC L RT	Y N	Y N	
52	EA E# PL PC L RT	Y N	Y N	
53	EA E# PL PC L RT	Y N	Y N	
54	EA E# PL PC L RT	Y N	Y N	
55	EA E# PL PC L RT	Y N	Y N	
56	EA E# PL PC L RT	Y N	Y N	
57	EA E# PL PC L RT	Y N	Y N	
58	EA E# PL PC L RT	Y N	Y N	
59	EA E# PL PC L RT	Y N	Y N	
60	EA E# PL PC L RT	Y N	Y N	
61	EA E# PL PC L RT	Y N	Y N	

Spd# (01-70)/External #	EA = External Autodial E# = External number PL = Prime line PC = Pool code L = Line # RT = Use Routing Table	Display digits	Bypass Restrictions	Memory button #
62	EA E# PL PC L RT	Y N	Y N	
63	EA E# PL PC L RT	Y N	Y N	
64	EA E# PL PC L RT	Y N	Y N	
65	EA E# PL PC L RT	Y N	Y N	
66	EA E# PL PC L RT	Y N	Y N	
67	EA E# PL PC L RT	Y N	Y N	
68	EA E# PL PC L RT	Y N	Y N	
69	EA E# PL PC L RT	Y N	Y N	
70	EA E# PL PC L RT	Y N	Y N	

Scheduled Services

The following tables allow you to set the parameters for managing services within your telephone network.

- Common Settings on page 35
- Ringing Service on page 37
- Restriction Service on page 41
- Routing Service on page 41

Common Settings

You can change the name and details of schedules. Use this form to keep track of any changes. The defaults are listed.

Service control password					
Schedule Name			**Schedule Name**		
Schedule 0	Normal	(read only)			
Schedule 1	Night		**Schedule 4**	Sched 4	
Schedule 2	Evening		**Schedule 5**	Sched 5	
Schedule 3	Lunch		**Schedule 6**	Sched 6	

Schedule Times										
Monday	**Sched.**	**Start Time**		**Stop Time**		**Tuesday**	**Sched.**	**Start Time**		**Stop Time**	
		Default		Default				Default		Default	
	Night	2300		0700			Night	2300		0700	
	Evening	1700		2300			Evening	1700		2300	
	Lunch	1200		1300			Lunch	1200		1300	
	Sched. 4	0100		0100			Sched. 4	0100		0100	
	Sched. 5	0000		0000			Sched. 5	0000		0000	
	Sched. 6	0000		0000			Sched. 6	0000		0000	

Wednesday	Sched.	Start Time		Stop Time	
		Default		Default	
	Night	2300		0700	
	Evening	1700		2300	
	Lunch	1200		1300	
	Sched. 4	0100		0100	
	Sched. 5	0000		0000	
	Sched. 6	0000		0000	

Thursday	Sched.	Start Time		Stop Time	
		Default		Default	
	Night	2300		0700	
	Evening	1700		2300	
	Lunch	1200		1300	
	Sched. 4	0100		0100	
	Sched. 5	0000		0000	
	Sched. 6	0000		0000	

Friday	Sched.	Start Time		Stop Time	
		Default		Default	
	Night	2300		0700	
	Evening	1700		2300	
	Lunch	1200		1300	
	Sched. 4	0100		0100	
	Sched. 5	0000		0000	
	Sched. 6	0000		0000	

Saturday	Sched.	Start Time		Stop Time	
		Default		Default	
	Night	2300		0700	
	Evening	1700		2300	
	Lunch	1200		1300	
	Sched. 4	0100		0100	
	Sched. 5	0000		0000	
	Sched. 6	0000		0000	

Sunday	Sched.	Start Time		Stop Time	
		Default		Default	
	Night	2300		0700	
	Evening	1700		2300	
	Lunch	1200		1300	
	Sched. 4	0100		0100	
	Sched. 5	0000		0000	
	Sched. 6	0000		0000	

NOTES:

Ringing Service

Photocopy as required

You can have a maximum of 100 ring groups. Each group can have a maximum of 30 telephones.

Group # 001-100							
Ring grp #	**Telephones (DN)**	**Ring grp #**	**Telephones (DN)**	**Ring grp #**	**Telephones (DN)**	**Ring grp #**	**Telephones (DN)**

Group # 001-100							
Ring grp #	**Telephones (DN)**	**Ring grp #**	**Telephones (DN)**	**Ring grp #**	**Telephones (DN)**	**Ring grp #**	**Telephones (DN)**

Ringing Service scheduling

Schedule	Service Setting	Trunk Answer	Extra Dial Set
Night	Off Auto Manual	Y N	DN None
Evening	Off Auto Manual	Y N	DN None
Lunch	Off Auto Manual	Y N	DN None
Sched. 4	Off Auto Manual	Y N	DN None
Sched. 5	Off Auto Manual	Y N	DN None
Sched. 6	Off Auto Manual	Y N	DN None

Night settings		
Line #	**Ring group (name)**	**Aux ringer**
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N

Evening settings		
Line #	**Ring group (name)**	**Aux ringer**
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N

Lunch settings		
Line #	**Ring group (name)**	**Aux ringer**
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
Sched. 5 settings		
Line #	**Ring group (name)**	**Aux ringer**
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N

Sched. 4 settings		
Line #	**Ring group (name)**	**Aux ringer**
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
Sched. 6 settings		
Line #	**Ring group (name)**	**Aux ringer**
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N
		Y N

Restriction Service

Schedule	Service Setting		
Night	**Off**	Auto	Manual
Evening	**Off**	Auto	Manual
Lunch	**Off**	Auto	Manual
Sched. 4	**Off**	Auto	Manual
Sched. 5	**Off**	Auto	Manual
Sched. 6	**Off**	Auto	Manual

Routing Service

Schedule	Service Setting			Overflow
Night	**Off**	Auto	Manual	Y N
Evening	**Off**	Auto	Manual	Y N
Lunch	**Off**	Auto	Manual	Y N
Sched. 4	**Off**	Auto	Manual	Y N
Sched. 5	**Off**	Auto	Manual	Y N
Sched. 6	**Off**	Auto	Manual	Y N

Restriction Filters

Photocopy as required

Your system can have a maximum of 100 restriction filters. The wildcard is a capital A, which allows any digit from 0 to 9.

Restriction filter (00-99)	Restrictions within filter	Digits	Overrides	Digits	Notes:
00	No restrictions (filter that cannot be changed)		None		
01	01	0			
	02	1	001	1800	
			002	1877	
			003	1888	
	03	911	001	911	
	04	9411			
	05	976			
	06	1976			
	07	1AAA976			
	08	1900			
	09	1AAA900			
	09	1AAA900			
	10	**5551212**			

Restriction filter (00-99)	Restrictions within filter	Digits	Overrides	Digits	Notes:

Hunt groups

Photocopy pages before using.

Hunt group name:								
Hunt Group #	**Hunt Group DN**	**Mode**	**Hunt Delay (Linear and Rotary only)**	**If busy:**	**Queue timeout**	**Overflow**	**Aux ringer**	**Distinctive Ring pattern**
		Broadcast Linear Rotary	1 2 3 4 5 6 7 8 9 10	Busy Tone Queue	15 30 45 60 120 180		Y N	None 2 3 4

Members and Line assignment: **AO = Appearance Only, AR = Appr&Ring, RO= Ring only**							
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	
Member #	DN	AO AR RO		**Member #**	DN	AO AR RO	

Silent Monitor

These are the system settings for **FEATURE** *550. To designate a two-line display telephone as a supervisor telephone for this feature, refer to the Capabilities section for each telephone that you want to designate as allowing Silent monitoring.

General Settings, Silent Monitor			
SM passwd Default: 745368 (SILENT)			
Monitoring mode	**SM set DNs** (1 to 15)	**Monitoring mode**	**SM set DNs** (16 to 30)
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	
Silent Entry tone		Silent Entry tone	

Hospitality Services

Photocopy pages before using.

(requires keycode)

Hospitality system features	**Service change time**	**Desk password**	**Room condition password**

Alarm Data	**Attempts**	**Retry interval**	**Alarm duration (in seconds)**	**Time format**
	1 2 **3** 4 5	2 3 4 5 6 7 8 9	10 15 20 25 30 35 40 45 50	12 hour 24 hour
Expired alarms	**Notify set:**	None DN:	**Use tone**	N Y
Call permissions (restriction filters)				
	Vacant filter:	**Basic filter:**	**Mid filter:**	**Full filter:**

Set/room settings					
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y
DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y	DN: Room Number:	Requires desk password? N Y

Return to Programming Record forms

Post-installation

NORTEL NETWORKS™

Contents: Post-installation

Call Detail Recording 1
Console Service 2
Voice Mail 3

Call Detail Recording

Summary				
Status	Up Down		**Startup on Reboot**	Enable-Automatic Enable-Manual Disable

Report Params				
Format	**Norstar** SL-1		**Report Filter**	**All** Outgoing Prefix Account Code
Report Type	**All** Standard CLID Real-Time		**Feature Code F9**	
Language	**English** French Danish Swedish Dutch Spanish German Italian Norwegian			

Report Options				
Date Format	MM/DD/YY DD/MM/YY YY/MM/DD			
Header Format	Line/Station Source/Destination		**Clip File Schedule**	Daily Weekly Monthly File Size
DNIS Info	Enable Disable		**Clip File Size (100KB)**	
Connect Char	Enable Disable		**CDR Disk Space Limit (MB)**	

Market Params				
CLID with Name	Enable Disable		**Answer Supervision**	Enable Disable
Long CLID Support	Enable Disable		**Call Filter Duration**	
CLID with Call Type	Enable Disable		**Hospitality Records**	Enable Disable
Support Call Charge	Enable Disable			

Prefix Bins Settings				
Prefix 1			**Prefix 5**	
Prefix 2			**Prefix 6**	
Prefix 3			**Prefix 7**	
Prefix 4			**Prefix 8**	

Access Bin Settings and Suppress Length Settings				
Access 1			Suppress 1	
Access 2			Suppress 2	
Access 3			Suppress 3	
Access 4			Suppress 4	
Access 5			Suppress 5	

Data File Transfer				
Transfer Type	Push-Daily Push-Weekly Push-Monthly None		**Delete file after Transfer**	Yes **No**
IP Address or Machine Name			**Compress File before Transfer**	**Yes** No
Remote User			**Transfer Time**	
Remote Password			**Transfer Day**	Push-Daily
Destination FTP Alias			**Day of Week**	
Number of Retries	0 1 2 3 4 5 6 7 8 9 10		**Day of Month**	

Console Service

Console Service Summary			
Status	Start Stop Disable EnabledAuto EnabledManual		
Server Configuration			
Voice Mail Pilot Extension		**Rediscover Station List on next Restart**	Yes No

Diagnostic Logging			
Log Detail Level			
Log to File	Yes No	**Log Response events**	Yes No
Log CP events	Yes No	**Log Session events**	Yes No
Log Device events	Yes No	**Log System events**	Yes No

Voice Mail

Photocopy as required

Settings	
Allow LAN CTE Desktop Clients	Yes No

Domain\User Account				
Domain\User Account	**DNs / Extensions**		**Domain\User Account**	**DNs / Extensions**

IP Address				
IP Address	**DNs / Extensions**		**IP Address**	**DNs / Extensions**

Machine Name				
Machine Name	**DNs / Extensions**		**Machine Name**	**DNs / Extensions**